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L5 ANSWER 1 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 2011;3823 CAPLUS PARS STRUCTURE 1543-9467

Organic electroluminescence devices

Author Inventor Kawamura, Hisayuki Kubota, Mineyuki, Funabashi, Masakazu

Patent Assignee Corporate Source Identitsu Kosan Co., Ltd., Japan

Source Jan Takkyo Kaha 44pp CODEN JTXXFF

Document Type Patent

Language Japanese

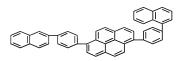
PATENT NO	KIND	DATE	APPLICATION NO.	DATE
JP 4653469	82	20110316	JP 2004-348675	20041201
JP 2006156888	Δ.	20060615		

WO 2006059512	A1	20060608	WO 2005-JP21469	20051122
CN 101069299	A	20071107	CN 2005-80041191	20051122
CN 100565964	С	20091202		
US 20060158102	A1	20060720	US 2005-288281	20051125
US 7528542	B2	20090505		
KR 2007091280	A	20070910	KR 2007-7012284	20070531
JP 2010283384	A	20101216	JP 2010-198577	20100906

Coloused is an organic electrolluminescent device comprising at least an anode, a cultude and an organic light emitting layer interposed between the electrodes, wherein the organic light-emitting layer certains of host materials, a host-appropriagopant and an electron-tapping depart. By having the hole-tapping depart and the electron-tapping depart course in the organic leght-emitting layer, the organic electroluminescent device can have a larger life.

These a larger life in the organic electroluminescent device can have a larger life.

Chemical or Trade Name Fyrence, 1-|4-(1-naphthaleny1)pheny1]-6-|4-(2-naphthaleny1)pheny1]- (CA INDEX NAME)



OS CITING REF COUNTS 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L5 ANSWER 2 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN

Accession Number
2019 82095 CAPLUS Fishers
Document Number
151 159940

Trie Title Organic electroluminescent device allowing adjustment of chromaticity Author/Inventor Nonoshita, Massaru Pater Nosgrive Corporate Source Full Prob Film Os, Lud. Japan

Source
U.S. Pat Appl Publ. 13 to CODEN USXXCO

Document Type Patent

PATENT NO	KND	DATE	APPLICATION NO	DATE
US 20080185971	A1	20050807	US 2006-579061	20061027
TW 267922	8	20061201	TW 2004-112026	20040429
WO 2005106835	Al	20051110	NO 2004-JP6354	20040430
CN 1977301	A	20070606	CN 2004-#0042922	20040430
CN 100487776	С	20090513		
KR 2007020051	A	20070216	KR 2006-7024970	20061128
KR 836542	B1	20080610		

Abstract Open deschadering and open compromy as paged absorbations and a converse place between a support deschadering and a page of the converse place plac

CAS Registry Number 790273-07-3 CAPLUS

Chemical or Trade Name Pyrene, 1,3,6,8-tetrakis([1,1'=bipheny1]=4-y1)= (CA INDEX NAME)

OS CITING REF COUNTS 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (9 CITINGS)

. L5 ANSWER 3 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 2010 ST9009 CAPLUS Full-lest Document Number 150 954-45

Title
Preparation of aromatic amme derivatives as doping materials for organic electroluminescent devices
Authoritinentities
Fundastri, Massikaru, Kubota, Mineyals
Parant Angayea Corporate Source
German Co., List., Jepan

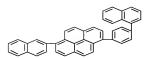
Jpn. Tokkyo Koho, 33pp.; Chemical Indexing Equivalent to 145 396527 (WO) CODEN: JTXXFF

PATENT NO	KND	DATE	APPLICATION NO	DATE			
JP 4263700	82	20090513	JP 2005-73474	20050315			
JP 2006256979	A	20060926					
WO 2006098080	A1	20050921	WO 2006-JP300516	20060117			
EP 1860096	A1	20071128	EP 2008-711796	20060117			
US 20050210830	A1	20050921	US 2006-336855	20060123			
US 7816017	82	20101019					
KR 2007110362	A	20071116	KR 2007-7020953	20070913			
IN 2007CN04053	A	20071123	IN 2007-CN4053	20070917			
CN 101142169	A	20080312	CN 2006-80008634	20070917			
US 20110034733	A1	20110210	US 2010-854247	20100811			

Abortisol
The title compts, ([f] = (A1)b, [7] = (A5)b, [7

CAS Registry Number 870774-21-3 CAPLUS

Chemical or Trade Name Pyrese, 1-(2-naphthaleny1)-6-[4-(1-naphthaleny1)pheny1]- (CA INDEX NAME)



L5 ANSWER 4 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 2007 642430 CAPLUS FLIP-Suit

Document Number 147,62066

Anthracene derivatives for use in organic electronic devices and their synthesis and the devices Arthracene Genreure
Author/Inventor
Heil, Holger, Buesing, Arne, Stoessel, Philipp
Patiert Assignes/Corporate Source
Merck Patient G.m.b.H., Germany

Source PCT Int. Appl., 57pp. CODEN. PDXXD2

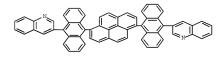
Document Type Patent Language German Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO	DATE
WO 2007065678	A1	20070614	WO 2006-EP11758	20061207
DE 102005058557	A1	20070614	DR 2005-102005058557	20051204
EP 1957606	A1	20080820	EP 2006-829379	20061207
JP 2009518342	т	20090507	JP 2006-543731	20061207
US 20080303423	A1	20081211	US 2008-96536	20080606

Addition

Groups are despited only comprove the publishment of the properties of the 1 properties of 1 propert

Chemical or Trade Name Quinoline, 3,3'-(1,6-pyrenediyldi-10,9-anthracenediyl)bis- (CA INDEX RAME)



L5 ANSWER 5 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN

Accession Number 2007 637739 CAPLUS Fid-text Document Number

147.62058

Organic blends for electronic devices, their use in electronic devices, especially electroluminescent devices, and the devices Author/Inventor

Inventor Vestweber, Horst, Stoessel, Philipp, Heil, Holger

Patent Assignee Corporate Source Merck Patent G.m b.H., Germany

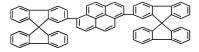
Source PCT int, Appl , 61pp, CODEN PDXXD2

Language German

PATENT NO	KIND	DATE	APPLICATION NO.	DATE
WO 2007065547	At	20070614	WO 2006-EP11026	20061117
DE 102005058557	A1	20070614	DE 2005-102005058557	20051209
EP 1957603	At	20000620	EP 2006-818609	20061117
JP 2009518831	т	20090507	JP 2006-543682	20061117
US 20080297037	A1	20081204	US 2008-96492	20080606
CN 101326260	A	20081217	CN 2005-80046146	20080606
KR 2008082681	A	20080911	KR 2008-7016431	20060707
IN 2008KN02737	A	20090123	IN 2008-KN2737	20080707

Sends are described into corpora is 16/fertically uniquificative/playment compound and it is imbiscent described with CATO file-trainignoses. Control of the compound are compound and it is imbiscent described with CATO file-trainignoses. Control of the compound are compound and in control of the compound in a product for an observation process control of the compound and in compound and in control of the control of Hit Structure

Chemical or Trade Name 9,9'-Spirobi(9E-fluorene), 2,2''-(1,6-pyrenediyl)bis- (CA INDEX NAME)



L5 ANSWER 6 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN

Accession Number 2007.585352 CAPLUS Fullent

Document Number 147:41936

Luminescent material containing pyrene compound and light-emitting device employing it Luminescent material containing by the Control of Author Inventor Cognes, Takashi, Tominaga, Takashi, Murase, Selichero Paterit Assignie Corporate Source
Toray Industries, Inc., Japan

Jpn. Kokal Tolkkyo Koho, 23pp. CODEN: JRXXAF Document Type Patent

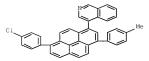
Language Japanese Patent information

PATENT NO. KIND DATE APPLICATION NO. DATE JP 2007131723 A 20070531 JP 2005-325760 20051110

The memoin relates to a luminoscent material and a light-emitting device employing 6. The above material consists of the green compound represented by the general formula HI, where RT-RT-S is selected from the fused regis farmed between adjacency, suitability, such as hydrogen, the skily green, and selected green, and the helemorphic group. As directly bonded to all lead one of RT-RTO, YT-YS is selected from integer or custom stom, when one of YT-T-S or impropried motion to account of RT-RTO, YT-YS is selected from integer or custom stom, when one of YT-T-S or impropried motion to account of RT-RTO, YT-YS is selected from integer or custom stom, when one of YT-T-S or impropried motion to account of RT-RTO, YT-YS is selected from integer or custom stom, when one of YT-T-S or improve another to account on the yt-T-S or improve another to account on the year of YT-T-S or improve another to account on the year of YT-YS or improve another to account on the year of YT-YS or improve another to account on the year of YT-YS or improve another to account on the year of YT-YS or improve another to account on the year of YT-YS or improve another to account on the year of YT-YS or improve another to account on the year of YT-YS or improve another to year of YT-YS or improve another year of YT-YS o Hit Structure

CAS Registry Number 936719-68-5 CAPLUS

Chemical or Trade Name Isoquinoline, 4-18-(4-chloropheny1)=3-(4-cethylpheny1)-1-pyreny1)- (CA INDEX NAME)



L5 ANSWER 7 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number

ion Number 2007 585349 CAPLUS FLEXING

146 530861

Trito

Tide

Luminescent material and light-centiting device employing if
Authoritinetics

Oguesa, Takeshi, Munase, Selibhiro, Negao, Kazuma

Patent Assigne Corporate Source

Trop Industries, Inc., Lypan

Jpn Kokai Takkya Kaha, 22pp DODEN: JKXXAF

Document Type

Language Japanese

PATENT NO. KIND DATE APPLICATION NO. DATE JP 2007131722 A 20070531 JP 2005-325759 20051110

za
The invention relates to a luminescent material and light-emitting device employing it. The above material consists of antifracene compound represented by I, where A is the direct bond, the anylone group, etc. and R1-R19 are H, the abyl group, etc., at least one of R11-R19 and R1-R10 is used for the connection with A. Hit Structure

CAS Registry Number 908011-69-8 CAPLOS

Chemical or Trade Name Benzoxazole, 2-[3,8-bis(4-methylphenyl)-1-pyxenyl]- (CA INDEX NAME)

OS CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L5 ANSWER 8 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN

Accession Number 2007:352951 CAPLUS FLEIGES 2007:35295 Document Number 146:390110

Trie

Blue light-emitting materials and devices using pyrone compounds

Author/Inventor Sugimoto, Kazunori, Murase, Selichiro; Nagao, Kazuma

Patent Assignee Corporate Source Toray Industries, Inc., Japan

Jon Kokai Tokkyo Koho, 27pp CODENI JKXXAF

Document Type Patent

Language Japanese Patent Information

PATENT NO. KIND DATE APPLICATION NO. DATE JP 2007077185 A 20070329 JP 2005-263424 20050912

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CAS Requetry Number 908011-57-4 CAPLUS

Chemical or Trade Name Oxazole, 3-phenyl-2-(3,6,8-txis(4-methylphenyl)-1-pyxenyl)- (CA INDEX

CAS Requetry Number 908011-58-5 CAPLUS

Chemical or Trade Name Cxxxxxle, 5-phonyl-2-[3,6,8-tris(6-methyl-1-maphthsleoyl)-1-pyxenyl]- (CA NUMCH NAME)

CAS Registry Number 908011-61-0 CAPLOS

Chemical or Trade Name Owazole, 2-[3,8-bis(4-methylphenyl)-1-pyrenyl]-5-phenyl- (CA INDEX NAME)

CAS Requetry Number 208011-62-1 CAFLOS

Chemical of Trade Masse Thiarole, 5-phenyl-2-[3,6,8-tris(4-methylphenyl)-1-pyzenyl]- (CA INDEX NAME)

CAS Registry Number 908011-63-2 CAPLOS

Chemical or Trade Name IM-Tmidazole, l-methyl-5-phenyl-2-[3,6,8-tris(4-methylphenyl)-1-pytenyl]-(CA INDEX NAME)

CAS Requestry Number 908011-64-3 CAPLUS

Chemical or Trade Mane 1.3,4-0xadiazole, 2-phenyl-5-[3,6,8-txis(4-methylphenyl)-1-pyrenyl]- (CA TRIME NAME)

CAS Registry Number

Chemical or Trade Name 1,3,4-Thindiazole, 2-phanyl-5-[3,6,8-trim(4-methylphanyl)-1-pyremyl]- (CA TRUCK CAME)

CAS Registry Number 908012-66-5 CAPLOS

Chemical or Trade Mane 4H-1,2,4-Triazole, 4-methyl-3-phenyl-5-{3,6,8-tris(4-methylphenyl)-1-pyceyl}- (CA INDEX GAME)

CAS Registry Number 930088-30-5 CAPLUS

Chemical or Trade Name lR-Tetrasole, 1-methyl-5-[3,6,8-tris(4-methylphenyl)-1-pyrenyl]- (CA TROEK NAME)

CAS Registry Number 908011-84-7 CAPLOS

Chemical or Trade Name Pyrene, 1,3,6-tris(4-methylphenyl)- (CA INDEX NAME)

CAS Registry Number 908011-85-8 CAPLUS

Chemical or Trade Name Pyrene, 1,3,6-tris(4-methyl-1-naphthalenyl)- (CA INDEX NAME)

CAS Registry Number

Chemical or Trade Name Pyreme, 1-brono-3,6,8-trim(4-methyl-1-maphthalenyl)- (CA INDEX NAME)

CAS Registry Number 930088-31-6 CAPLUS

Chemical or Trade Name Pyrene, 1-boomo-3,6,8-tris(4-methylphenyl)- (CA INDEX NAME)

L5 ANSWER 9 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 2007 33414 CAPLUS <u>Full-text</u> Document Number 146 121699

Process for preparation of pyrene derivatives for use in organic electroluminescence devices

Process for preparation of pyren
Author-Inventor
Ho. Mitsunori, Kubota, Mineyuki
Patent Assignee Corporate Source
Identisu Kosan Co., Ltd., Japan

PCT Int. Appl., 62pp. CODEN PDXXD2

PATENT NO	KND	DATE	APPLICATION NO.	DATE
WO 2007004384	A1	20070111	WO 2006-JP310194	20060523
JP 2007015961	A	20070125	JP 2005-197765	20050706
EP 1905754	Al	20080402	EP 2005-746728	20060523
US 20080124571	At	20080529	US 2007-926813	20071029
US 7585574	B2	20090908		
CN 101213161	A	20080702	CN 2006-80024361	20080103
KR 2008027332	A	20080326	KR 2008-7000282	20060104
IN 2008CN00622	A	20081128	IN 2008-CN622	20080206

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CAS Requetry Number 918655-02-4 CAPLUS

Chemical or Trade Name Pyrene, 1-(3-bromophenyl)-6-phenyl- (CA INDEX NAME)

CAS Requetry Number 918654-67-8 CAPLOS

Chemical of Trade Name
Pyrene, 1,2'=[1,2':4',1'*=terpheny1]=3,3''=diyibis[0-pheny1= (CA INDEX NAME)

CAS Registry Number 918654-68-9 CAPLUS

Chemical or Trade Name Fyceo, 1-pheny1-6-|3''-(1-pyreny1)|1,1':6',1''-terpheny1]-3-y1]- (CA NORK NAME)

CAS Requetry Number 918654-69-0 CAPLUS

CAS Registry Number 918654-70-3 CAPLUS

Chemical or Trade Name Pyrece, 3,3:13,1144,1:*herpheny1]=3,3:*-diyibis[6-[1,1:*bipbeny1]=4-yi-(CA.TROEX NAME)

PAGE 1-A

PAGE 1-B

CAS Requetry Number 918654-71-4 CAPLOS

Chemical or Trade Name Pyrene, 1,2'-[1,2':4':1''-terpheny1]-3,3''-diylbis[6-[4-(1-naphthaleny1)pheny1]- (CA INDEX NAME)

PAGE 1-A

PAGE 1-B



CAS Registry Number 918654-12-5 CAPLE

Chemical or Trade Name
Pyreme, 1,1'-[1,1':4',1''-terpheny1]-3,3''-diy1bix[6-[3-(2-nephthaleny1)pheny1]- (CA INUKK NAME)

PAGE 1-A

PAGE 1-B

CAS Requetry Number 918654-73-6 CAFLUS

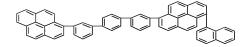
Chemical or Trade Name Pyrens, 3-(1,1"-bipheny1)-4-y1-6-(3""-(1-pyreny1)[1,2"14",2""-terpheny3]-3-y11- (CA INDEX NAME)

CAS Registry Number 918654-74-7 CAPLUS

Chemical or Trade Name Fyrence, 2-(2-maghthaleny1)-6-(3''-(1-pyreny1)[1,1'16',1''-terpheny1]-3-y1]-(CA INDEX NAME)

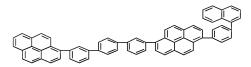
CAS Registry Number 918654-75-8 CAPLOS

Chemical or Trade Name Fyrenc, 1-(1-naphthalenyl)-6-(3''-(1-pyrenyl)(1,1'14',1''-texphenyl]-3-y1]-(CA_IDEN_RAME)



CAS Registry Number 910654-76-9 CAPLOS

Chemical or Trade Name Pyrson, 1-[4-[1-maphthaleny1]pheny1]-6-[3**-(1-pyreny1)[1,1*:4*,1**-tepheny1]-3-y1]- (CA INDEX NAME)



CAS Requetry Number 918654-77-0 CAPLUS

Chemical or Trade Name Pyrene, 3-(4-12-maphthaleoyl)phenyl)-6-(3**-(3-pyrenyl)[1,1*4*,1**-terphenyl]-3-y17- (7.NIDEK NAME)

PAGE 1-A

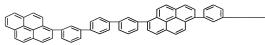
PAGE 1-B



CAS Registry Number 918654-78-1 CAPLUS

Chemical or Trade Name
Pyrene, 1-[3-12-maghthalenyl]phenyl]-6-[3**-(1-pyrenyl)[1,1*4*,1**terghenyl]-3-yl]- (CA INDEX NAME)

PAGE 1-A





CAS Registry Number 918654-79-2 CAPLOS

Chemical or Trade Name Fycene, 1-(1-naphthaleny1)-6-(3"-[6-(3-(2-naphthaleny1)pheny1]-1-pyceny1](1/1*6*/1"-terpheny1)-3-y1]- (CA INDEX NAME)

PAGE 1-A

PAGE 1-B

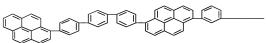
CAS Registry Number 918654-80-5 CAPLOS

Chemical or Trade Mane
Pyreon, 1,1'=[1,1',4',1''-terpheny1]-4,4''-diyibis[6-pheny1- (CA INCEX NAME)

CAS Registry Number 918654-81-6 CAPL/SS

Chemical or Trade Mame Fyrence, 2-(3-12-maghthaleny1)pheny1)-6-(4"-(1-pyreny1)(1,1":4",1"-terpheny1)-6-y1)- (CAINDER NAME)

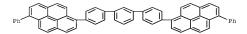
PAGE 1-A





CAS Registry Number 918654-83-8 CAPLOS

Chemical or Trade Same Fyrence, 1,1'-[1,1'*3',1'*-terphenyl]-4,4''-diylbis[6-phenyl- (CA INDEX NAME)



CAS Requestry Number 918654-84-9 CAPLUS

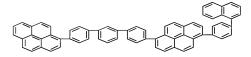
Chemical or Trade Mane Pyrene, 2-[6""-[1-pyrenyl][1,1":3",1"-terphonyl]-6-[6""-(1-pyrenyl][1,1":3",1"-terphonyl]-6-[7]- (C.TMDEK NAME)

PAGE 1-A

PAGE 1-B

CAS Requetry Number 918654-85-0 CAPLUS

Chemical or Trade Name Fyrenc, 1=(4:1-maphthalenyl)phenyl)-6-[4"-(1-pyrenyl)[1,1":3",1"-terphenyl]-6-yl- (CAINDEN NAME)



CAS Registry Number 918654-87-2 CAPLUS

Chemical or Trade Name Pyrece, 1=(3:1-(2-naphthaleny1)pheny1)-6-(3:1-(2-pyreny1)[1,1:13:,11-terpheny1)-5-y1)- (C. NINGK NAME)

PAGE 1-B

CAS Registry Number 918654-88-3 CAPLOS

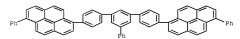
Chemical or Trade Name
Pyrene, 1-(3-(2-naphthaleny1)pheny1)-6-(3*-(6-pheny1-1-pyreny1)(1,1*:3*,1*-texpheny1)-3-y1)- (CA INDEX NAME)

PAGE 1-A

PAGE 1-B

CAS Registry Number 918654-92-9 CAPLOS

Chemical or Trade Name Pyreos, 1,1°-(5'-pheny1[1,2':3',1''-terpheny1]-4,4''-diy1)bim[6-pheny1-(A. INDEX NAME)



THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS) OS CITING REF COUNT: 1

, L5 ANSWER 10 OF 50 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 2005 130904 CAPLUS <u>Full-text</u>

Document Number 146 73195

Multicyclic materials for organic electronic devices and devices using them

Mulbeytic makeness or regent.

Author/Invested.

PCT Int. Appl., 61pp. CODEN PIXXD2

Language German Patent Information

PATENT NO KIND DATE APPLICATION NO

WO 2006131192	A1	20061214	WO 2006-EP4609	20060516
DE 102005026651	A1	20061214	DE 2005-102005026651	20050609
EP 1888707	AI	20080220	EP 2006-753643	20060516
JP 2008545762	т	20081218	JP 2008-515076	20060516
US 20090128009	At	20090521	US 2008-916070	20080508

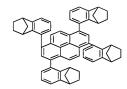
Advanced

Internation are discorbed which complice condensed arounds system including in CH-H philosophyl graps; Polymers, objectives, and denotiones are decorbed which have repeating units based on the complice. Exclusive above (a.g. organs and philosophic decided units except the philosophyl graps; Polymers, objectives, and denotiones are decorbed which have repeated create, agreement of the complication of the complicat

Chemical or Trade Name Pyreme, 1,6-bis(1,2,3,6-tetrahydro-1,6-methanonaphthalen-5-y1)- (CA INDEX NAME)

CAS Registry Number 916669-30-2 CAPLOS

Chemical or Trade Name Eyecoe, 1,3,5,8-tetrahsel,2,2,3,4-tetrahydro-1,4-methamonaphthalen-5-yl)-(CA INCEN NAME)



OS CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L5 ANSWER 11 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 2006 113769 CAPLUS <u>Full text</u> Document Number 149 417229

Trite Preparation of aromatic arnine derivatives and organic electroluminescent device containing them

Preparation of architecture cereminal and appearance of the Australia Coperate Source Identification Co. Ltd., Japan

Source PCT Int. Appl., 43pp. COOEN PIXXDE Document Type Patent Language Japanese Patent intormation

PATENT NO	KND	DATE	APPLICATION NO.	DATE
WO 2006114949	A1	20061102	WO 2006-JP305007	20060314
JP 2006298793	A	20061102	JP 2005-119880	20050418
US 20060251925	A1	20051109	US 2006-378332	20060320
KR 2007120545	A	20071224	KR 2007-7023949	20071018
CN 101163663	A	20080416	CN 2006-80012999	20071018

Notable

The title complex (AL 22 R) = H, (projectionabled day), declarabilished day), d

CAS Registry Number 913977-58-9 CAPL/RS

Chemical or Trade Name Benzenanine, 4,6"-(1,6-pyrenediÿl)bis(N,N-diphenyl- (CA INDEX HAME)

CAS Requetry Number 913977-59-0 CAPLOS

Chemical or Trade Name Benzenanne, 4,6'-[3,8-bis[1-methylethyl)-1,6-pyrenediyl]bis[N,N-dipbenyl-(CA INDEX NAME)

CAS Registry Number 913977-60-3 CAPAGE

Chemical or Trade Mare Benzenanine, 4,6-13,8-bis[2-methylethyl]-1,6-pyrenediyl]bis[N,N-bis[3,4-dimethylephenyl)- [CA INDEX NAMS]

CAS Registry Number 913977-61-4 CAPLUS

Chemical or Trade Name Benzemanine, 4,4'=(3,8-diphenyl=1,6-pyremediyl)bir(N,N-diphenyl= (CA INDEX NAME)

CAS Registry Number

Chemical or Trade Name Benzenamine, 4,4"-(3,8-diphenyl-1,6-pyrenediyl)bis[N,N-bis(3,4-dimethy3phenyl)- (CA INDEX NAME)

CAS Registry Number 913977-63-6 CAPLUS

Chesical or Trade Name 1-Raphthalenamins, N,N'-(1,6-pyrenedsylds-4,1-phenylene)bis[N-phenyl-(SCI) (CA INDEX NAME)

CAS Registry Number 913977-64-7 CAPLUS

Chemical or Trade Mame [1,1'-diphenyl-d-amine, N,N'-(1,6-pyrenediyldi-4,1-phenyl-ne)his[N-phenyl-(CA_INEX_NAME)]

CAS Registry Number 913977-65-8 CAPLUS

CAS Registry Number 913977-66-9 CAPLOS

Chemical or Trade Name 1-Rephthalenamins, N, N'=(1,6-pyrenedryldT=3,1-phenylene)bss[N-phenyl-GC1) (CA TMEE NAME)

CAS Registry Number 55009-75-1 CAPLOS

Chemical or Trade Name Pyrene, 1,6-diphenyl- (CA INDEX NAME)

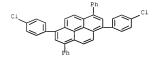
CAS Registry Number 764657-28-5 CAPLOS

Chemical or Trade Name Pyrene, 1,6-dibrono-3,8-diphenyl- (CA INDEX NAME)

CAS Registry Number 913977-56-7 CAPLUS

Chemical or Trade Name
Pyrone, 1,6-bis(4-chlorophenyl)=3,8-bis(1-mothylethyl)= (CA INDEX NAME)

Chemical or Trade Name Pyrece, 1,6-bis (4-chlorophenyl)-3,8-diphenyl- (CA INDEX NAME)



, L5 ANSWER 12 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 2008:1097683 CAPLUS <u>Full-lext</u>

Document Number 145 429142

Hybrid OLED having phosphorescent and fluorescent emitters

Author/Invertion
Tung, Yeh-Jun; Wegver, Michael S., Hook, Michael, Ester, James
Patent Assigne Corporate Source
Universal Display Corp., USA

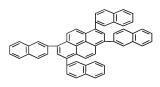
U.S. Pat Appl Publ., 24 pp CODEN USXXCO tent Type Patient

PATENT NO	KIND	DATE	APPLICATION NO.	DATE
US 20060232194	A1	20061019	US 2005-105666	20050413
WO 2006113106	AI	20061026	WO 2006-US12158	20060330

Accurated
An organic light emitting devices having a combined emission from all least two emissive materials, a fluorescent blue emissive material and a phosphorescent emissive material is described. The OLEDs may include three
different emissive materials—and emissive materials, a green emission material and a blue emission material for white emission.
HE districtions

CAS Registry Number 887909-59-3 CAPLOS

Chemical of Trade Name Pyrene, 1,3,6,8-tetra-2-maghthalenyl- (CA INDEX NAME)



L5 ANSWER 19 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 2008 1038072 CAPLUS <u>Put-inst</u> Document Number

145 407 183

Arylpyrene compounds and organic light- emitting devices using them Author/Inventor

Author/Inventor Kwong, Raymond, Nugent, Matthew Patent Assignee/Corporate Source Universal Display Corporation, USA

Source

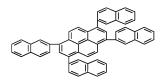
U.S. Pat, Appl. Publ., 48 pp. CODENI USXXXXQ

Language English Patent Information

PATENT NO. KIND DATE APPLICATION NO. DATE US 20040222886 Al 20061005 US 2005-97352 20050406 WO 2006107646 A1 20061012 WO 2006-US11211 20060327

"
Applyment compass are described which comprise pyrene covers with 2-naphthyl derivative substituents at the 1, 3, 6, and 8 positions, the 2-naphthyl derivs having Hatoms at the positions adjacent to the attachment point [positions 1 and 3] and independently selected substituents or Hatoms at other points. Organic light- emitting devices with organic layers including the naphthylpyrene compats, are also described.

Chemical or Trade Name Pyrene, 1,3,6,8-tetra-2-maphthalenyl- (CA INDEX NAME)



L5 ANSWER 14 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 2000:1037379 CAPLUS <u>Full-text</u>

145:407504

Trie The organic electroluminescent elements and displays

The organic Author/Inventor Nakayama, Massya Pateri Assigne Corporate Source Full Photo Film Co., Ltd., Japan Source Jpn Kokal Tolkkyo Koho, 31 pp. CODEN: JKXXAF

Jpn Koks Document Type Patent Language Japanese

Patent Information

ı	PATENT NO.	KND	DATE	APPLICATION NO.	DATE
	JP 2006269670	A	20061005	JP 2005-84525	20050323
ľ	US 20070154735	A1	20070705	US 2006-386675	20060323

The disclosed organic electroluminescent element comparies a support, organic electroluminescent layers, at least one of which contains a 1,3,62-virtachenjoperen delevative and a trip-tenj-foreizene delevative. The produced trip-tenj-foreizene delevative and a trip-tenj-foreizene delevative and a trip-tenj-foreizene delevative. The electroluminescent element has high emission efficiency, good laminosity, and color purity.

His Directive

CAS Requetry Number 13638-82-9 CAPLUS

Chemical or Trade Name Pyrene, 1,3,6,8-tetraphenyl- (CA INDEX NAME)



Chemical or Trade Name Pyrene, 1,3,6,8-tetrakis![1,1*-bipheny1]-4-y1)- (CA INDEX NAME)

L5 ANSWER 15 OF 56 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 2006 100333 CAPLUS <u>Full-text</u>
Document Number 143 386064

Title
Organic electrolluminescent devices showing high turnivescent efficiency and terphenyl denivatives therefor
Author/Investor
Takago, Katauhho, Kimura, Makson, Hosoitawa, Chishio, Funabashi, Masalkazu
Patern Razginea Corporate Source
Identitis Koson Co. Liti, Japan

Jpn Kokal Tokkyo Koho, 22pp CODEN: JRXXAF Document Type Patent

erm a	rormation				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	JP 200626510#	A	20061005	JP 2005-81233	20050322

CAS Registry Number 910556-12-6 CAPLUS

Chemical or Trade Mane
Pyrens, 1,6-bis|4"-[1,1-dimethylethy2)=6"-[4-(1,1-dimethylethy2)]000 (CA IMDEX NAME)
dimethylethy2)pheny1]1,2"12",1"-terpheny1]-4-y1]- (901) (CA IMDEX NAME)

.L5 ANSWER 16 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 2006 974600 CAPLUS FIGURES DOCUMENT Number 145 395627

Preparation of aromatic amine derivatives as doping materials for organic electroluminescent devices

Preparation of aromass annua deliveration inventor Fundashi, Masakazu, Kubota, Mineyuki Patent Asaigna-e/Corporate Source Idemstsu Kosan Co., Ltd., Japan

PCT Int. Appl., 52pp.; Chemical Indexing Equivalent to 150:599446 (JP) CODEN: PIXXD2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006098080	At	20060921	WO 2006-JP300516	20060117
JP 4263700	92	20090513	JP 2005-73474	20050315
JP 2006256979	A	20060928		
EP 1860096	AI	20071126	EP 2006-711796	20060117
KR 2007110362	A	20071116	KR 2007-7020953	20070913
IN 2007CN04053	A	20071123	IN 2007-CN4053	20070917
CN 101142169	A	20060312	CN 2006-50005534	20070917

The state of the s

HI Structure CAS Registry Number 870774-21-3 CAPLUS

Chemical or Trade Name
Pyrene, 1-(2-naphthalenyl)-6-[4-(1-naphthalenyl)phenyl]- (CA INDEX NAME)

OS CITING REF COUNTS 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)

L5 ANSWER 17 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 2006 844079 CAPLUS F16-3627
Document Number 145302452

Material for light-emitting element and light-emitting element

Authorimente
Authorimente
Authorimente
Aggreno (Kazumon, Marser, Seichre, Kitszawa, Dissike, Nagao, Kazumasa, Ogawa, Takahum, Tommaga, Tsuyosh
Patent Asagme Cappana Guure
Toray Industrius, Inc., Jupan

PCT Int. Appl., 77pp. CODEN PIXXD2

PATENT NO.	KND	DATE	APPLICATION NO.	DATE
WO 2006090772	A1	20050831	WO 2006-JP903254	20060223
JP 2006265515	A	20061005	JP 2005-180464	20050621
EP 1052486	Al	20071107	EP 2005-714394	20060223
KR 2007114723	A	20071204	KR 2007-7019375	20070524
US 20090056245	A1	20090312	US 2007-817143	20070524
US 7901794	82	20110326		
CN 101128561	A	20080220	CN 2006-80006231	20070527

Advantage

The invention intens to a meteral to a light-entiting or-ice comprising a pyraw compound represented by a general formula! I where R1 is R10 independently separated a specific functional group, provided that all least one of R1 is R10 independently separated a specific functional group, provided that are particularly separated as a specific functional group, provided that are provided in the provided in the provided in the provided group provided group in the provided group gr

CAS Registry Number 908011-57-4 CAPLUS

Chemical or Trade Marse Caszole, 5-phenyl-2-|3,6,8-tris(4-methylphenyl)-1-pyrenyl]- (CA INDEX

CAS Registry Number 908011-69-8 CAPLUS

Chemical or Trade Name Benzosazole, 2-13,8-bis(4-methylphenyl)-1-pyrenyl]- (CA INDEX NAME)

Chemical or Trade Name Benzonarole, $2-(3,6,8-tr_2-1-eaphtbalenyl-1-pyrenyl)-$ (CA INDEX NAME)

CAS Requetry Number 908011-74-5 CAFLOS

Chemical or Trade Name Bennoasole, 6-methyl-2-[3,6,8-tris[4-(1,1-dimethylethyl)phenyl]-1pyrmoyl]- (CA INDEX NAME)

CAS Registry Number 908011-75-6 CAPLUS

Chemical or Trade Name Bentoxazole, 5-(1,1-dimethylethyl)-2-(3,6,8-txis(4-(1,1-dimethylethyl)phenyl)-1-pyrenyl)- (CA INDEX NAME)

$$\begin{array}{c} Bu-t \\ Bu-t \\ \\ t-Bu \end{array}$$

CAS Registry Number 908011-58-5 CAPLOS

CAS Registry Number 908011-68-7 CAPLOS

Chemical or Trade Name Benzothiazole, 2-(3,8-bis(4-methylphenyl)-1-pyrenyl]- (CA INDEX NAME)

CAS Requetry Number 908011-71-2 CAFLUS

Chemical or Trade Name Bernomanole, 5-methyl-2-[3,6,8-tri-1-maphthalenyl-1-pyxenyl)- (CA INDEX NAMS)

CAS Registry Number 908011-72-3 CAPLUS

Chemical or Trade Name Benroxarole, 6-methyl=2=(3,6,8-tri=1=naphthalenyl-1=pyrenyl)- (CA INDEX NAME)

CAS Registry Number 908011-73-6 CAPLUS

Chemical or Trade Name Bennoxarole, 5-11,1-dumethylethyl)-2-{3,6,8-txi-1-naphthalenyl-1-pyrenyl}-(CA 1DECK NAME)

CAS Registry Number 908011-61-0 CAPLUS

Chemical or Trade Name Oxazole, 2-(3,8-bis(4-methylphenyl)-1-pyrenyl)-5-phenyl- (CA INDEX NAME)

CAS Registry Number 908011-62-1 CAPLUS

Chemical or Trade Name
Thiazole, 5-phenyl-2-(3,6,8-tris(4-methylphenyl)=1-pyxenyl]= (CA INDEX NAME)

CAS Registry Number 908011-63-2 CAPLOS

Chemical or Trade Name IM-Tmidazole, l-methyl-5-phenyl-2-[3,6,8-tris(4-methylphenyl)-1-pytenyl]-(CA INDEX NAME)

CAS Requestry Number 908011-64-3 CAPLUS

Chemical or Trade Mane 1.3,4-0xadiazole, 2-phenyl-5-[3,6,8-txis(4-methylphenyl)-1-pyrenyl]- (CA TRIME NAME)

CAS Registry Number

Chemical or Trade Name 1,3,4-Thiadiazole, 2-pheny1-5-[3,6,8-trim(4-methylpheny1)-1-pyremy1]- (CR TRUCK CAME)

CAS Registry Number 908031-66-5 CAPLOS

Chemical or Trade Mane 4H-1,2,4-Triazole, 4-methyl-3-phenyl-5-{3,6,8-tris(4-methylphenyl)-1-pyceyl}- (CA INDEX MANE)

CAS Registry Number 908011-76-7 CAPLUS

Chemical or Trade Name Benzoxazole, 6-methyl-2-[3,6,8-tris(2-methylphenyl)-1-pyrenyl)- (CA INCEX NAME)

CAS Registry Number 908011-77-8 CAPLOS

Chemical or Trade Name Bernoauxole, 5-methyl-2-[3,6,8-tris[2-methylphenyl)-1-pyrenyl]- (CA INDEX NAME)

CAS Requetry Number 908011-78-9 CAPLUS

Chemical or Trade Mane Benzoarole, 6-phenyl-2-[3,6,0-tris[2-methylphenyl)-1-pyrenyl]- (CA INCEX NAMS)

CAS Requetry Number 908021-79-0 CAPLUS

CAS Registry Number 908031-81-6 CAPLOS

Chemical or Trade Name Benrovazole, 2-[3,8-bis(4-fluorophenyl)-1-pyrenyl]- (CA INDEX NAME)

CAS Registry Number 908011-83-6 CAFLOS

Chemical or Trade Mame Benzoitzile, 6,4°-[3-(2-benzoxazoly1)-1,6-pyrenediy1]bis- (9CI) (CA TREET NAME)

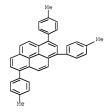
CAS Registry Number 908011-90-5 CAPLUS

Chemical or Trade Name Pyrene, 1,3,6-tri-1-maphthalenyl- (CA INDEX NAME)

CAS Registry Number 909011-91-6 CAPL/S Chemical or Trade Name Eyrece, 1-broso-3,6,8-tri-1-naphthalenyl- (CA INDEX NAME)

CAS Registry Number 908011-84-7 CAPLUS

Chemical or Trade Name Pyrene, 1,3,6-tris(4-methylphenyl)- (CA INDEX NAME)



CAS Registry Number 908011-85-8 CAPLOS

Chemical or Trade Name
Pyrece, 1,3,8-tris(4-methyl-1-maphthalenyl)= (CA INDEX NAME)

CAS Registry Number 908011-86-9 CAFLUS Chemical or Trade Name Pyrene, 1-bromo-3,6,8-tris(4-methyl-1-naphthalenyl)- (CA INDEX NAME)

CAS Registry Number 908011-87-0 CAPLUS

Chemical or Trade Name Pyrene, 1,6-bis(6-methylphenyl)- (CA INDEX NAME)

CAS Registry Number 908033-88-1 CAPLUS

Chemical or Trade Name
Pyrene, 3-bcomo-1,6-bis(4-methylphenyl)= (CA INDEX NAME)

THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (7 CITINGS) OS CITING REF COUNT: 3

L5 ANSWER 16 OF 56 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 2006 Bedge CAPLUS FACHALS Document Number 143 37658

Organic electroluminescent device

Organic electronamin account for a Author/Inventor Kawamura, Hisayuki Kubota, Mineyuki Patent Assigner-Corporate Source Identitsu Ketan Co., Ltd., Japan

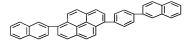
Source PCT Int. Appl., 76 pp. CODEN. PXXXD2 Document Type Patient Language Lagranese Patient Information

PATENT NO	KIND	DATE	APPLICATION NO.	DATE
WD 2006062078	A1	20060615	WO 2005-JP22336	20051206
US 20070134511	A1	20070614	US 2005-296400	20051208

Discosed is an organic electrodiministenent direct compression at least a part of electricities and a light-emitting layer interprot between them. This coppus electrodiministent of ever is changing for the finishment of a compression of the compression and a compression of the c

Hit Structure

Chemical on Toole Mane Pyrene, 1-(2-naphthaleny1)-6-(4-(2-naphthaleny1)pheny1)- (CA INDEX NAMES)



OS CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)

, L5 ANSWER 19 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 2005 538955 CAPLUS Full 2005

Title Organic electroluminescent device Author Inventor Kavemura, Hisoyulo, Kubosa, Mineyuki, Funahashi, Masakazu Patient Asagme-Corporate Source Identisu Kosan Co., Listi, Japan

PCT Int. Appl., 67 pp. CODEN PEXXD2

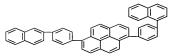
Document Type Patent

PATENT NO	KIND	DATE	APPLICATION NO	DATE
WO 2006059512	A1	20060608	WO 2005-JP21469	20051122
JP 4653469	B2	20110316	JP 2004-348675	20041201
JP 2006156888	A	20060615		
CN 101069299	A	20071107	CN 2005-00041191	20051122
CN 100565964	С	20091202		
KR 2007091280	A	20070910	KR 2007-7012284	20070531

Addition

Additi

Chemical or Trade Name Eyecoe, 2-[4-(2-naphthaleny1)pheny1]-6-[4-(2-naphthaleny1)pheny1]- (CA NRECE NAME)



OS CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)

L5 ANSWER 20 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN

Accession Number 2005/510707 CAPLUS FLEI 5030

145 17894

Pyrone compound and light emitting transistor device utilizing the same for electroluminescent display

Authoritimeter Chymac Compound and Sign eneming in account of the Authoritimeter Chymac Todayll Chymac, Todayl Chymac, Todayl

Source PCT Int. Appl. 47 pp. CODEN: P90XD2 Document Type Patient

Language Japanese Patent Information

PATENT NO.	KND	DATE	APPLICATION NO.	DATE
WO 2006057326	Al	20060601	NO 2005-JP21648	20051125
JP 2006176491	A	20060706	JP 2005-257934	20050906
EP 1816114	A1	20070808	EP 2005-809746	20051125
CN 101090376	A	20071129	CN 2005-80040407	20051125
KR 2007095300	A	20070928	KR 2007-7014327	20070622
US 20080195865	A1	20080508	US 2007-791674	20070806

A pyren compared that when used in a light entitling translate device, excels in both the properties of light entitles are needed, and a light entiting translate device, excels in both the properties of light entitles are needed of a pyren compared of the chemical formula (RTI = helenary, any (excluding RR), C1-20 oilly), takeny, dilyrys, (u)r), hallow IRE Distortion

Chemical or Trade Name Pyrens, 1,3,6,8-tetrakis(4-fluorophenyl)- (CA INDEX NAME)

CAS Requetry Number 881853-23-2 CAPLOS

Chemical or Trade Name
Pyrene, 1,3,6,6-tetrakis|6-(trifluoromethyl)phenyl]- (CA INDEX NAME)

CAS Registry Number 887909-71-9 CAPLUS

Chemical of Trade Name
Pyrene, 1,3,6,8-tetrakis(4-methylphony1)- (CA INDEX NAME)

CAS Registry Number 887909-13-1 CAPLOS

Chemical or Trade Name Pyrene, 1,3,6,8-tetrakse[3,5-bis(trifluoromethyl)phenyl]- (CA INDEX NAME)

CAS Requetry Number 190213-01-3 CAPLUS

Chemical or Trade Name
Pyrene, 1,3,6,0-tetrakis[[1,1'-bipheny1]-6-y1)- (CA INDEX NAME)

Chemical or Trade Name Pyreme, 1,3,6,8-tetrakis(3-methylphenyl)- (CA INDEX NAME)

CAS Requetry Number 887909-55-9 CAPLUS

Chemical or Trade Name Pyrene, 1,3,6,6-t-trakis(6-(2-phenylethenyl)phenyl)- (CA INDEX NAME)

CAS Registry Number 887909-57-1 CAPLOS

Chemical or Trade Name Pyrone, 1,3,6,8-tetrakis([1,1',4',1''-terphenyl]-4-yl)- (SCI) (CA INDEX NAME)

PAGE 2-A

CAS Registry Number 887909-59-3 CAPLUS

Chemical or Trade Name Pyrece, 1,3,6,8-tetra-2-naphthalenyl- (CA INDEX NAME)

OS CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (S CITINGS)

L5 ANSWER 21 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN ACCESSION Number 2005 10000 CAPLUS F16-3627 DOCUMENT Number 145,17891

Title Pyrene compound and, utilizing the same, light emitting transitor device and electroluminescence device

Author Limenter
Cyarmada, Takahilis, Ushiuzou, Hirigule, Adushi, Chihiaya, Abiyama, Selig, Takahasibi, Takayoshi
Pateri Assignee Corporate Sauree
Kyoto Umeradi, Japan Hopon Telegraph and Telephone Corporation, Pioneer Corporation, Habita, Ltd., Mitsubalis Chemical Corporation, Rollen Co., Ltd. Source PCT Int, Appl , 66 pp. CODEN PROXD2

Abstract

PATE	NT NO	KND	DATE	APPLICATION NO	DATE
WO 2	006057325	A1	20060601	NO 2005-JP21667	20051125
JP 2	006176494	A	20060706	JP 2005-282590	20050928
EP 1	*1*322	A1	20070915	EP 2005-809745	20051125
CN 1	01072743	A	20071114	CN 2005-80040399	20051125
KR 2	1007093401	A	20070918	KR 2007-7014336	20070622
US 2	0080012475	Ai	20080117	US 2007-791613	20070806

An organic phosphor of the following birmula I (R1 = heteroopt, a.y), C1-03-afe, I, ydodskyl, alkemyl, etc. R2 = heterooflyl, ayd, C1-03-afelyl, ydodskyl, alkemyl, etc. R1 = R2) that can be used in both a light emitting transastor device and an organic EL device. There is provided by the immitting transastor device or an organic EL device. There is provided by the immitting transastor device or an organic EL device. There is provided by the immitting transastor device or an organic EL device. There is provided by the immitting type of transastor device or a function of the immittened type, the demonstrating layer of transastor device or a function organic EL device. The immittened type is the immorphisting type of the immitting type of the immitting type of the immittened type is the immorphisting type of the immittened type or the immorphisting type or the immittened type or the immorphisting type of the immittened type or the immorphisting type or the immittened type or the immittened type of the immittened type or the immittened type of the immittened type or t

CAS Registry Number 887917-92-2 CAPLUS

Chemical or Trade Name Pyrene, 1-dodecyl-3,6,8-triphenyl- (CA INDEX NAME)

Chemical or Trade Name
Pyrene, 1,3,6-tris(|1,1'-bipheny1)-4-y1)-8-dodecy1- (CA INDEX NAME)

CAS Registry Number 887918-05-0 CAPLOS

Chemical or Trade Name Pyrene, 1,3,6-triphenyl- (CA INDEX NAME)

CAS Registry Number 887918-97-2 CAPLOS

Chemical or Trade Name Fyrene, 1-bross-3,6,8-tripbenyl- (CA INDEX NAME)

CAS Requetry Number 887918-18-5 CAFLUS

Chemical on Trade Name Boronic acid, B-(1,6,8-triphenyl-1-pyrenyl)- (CA INDEX NAME)

CAS Registry Number 887918-26-5 CAPLUS

Chemical or Trade Name Pyrene, 1,3,6-trim(3-methylphenyl)= (CA INDEX NAME)

CAS Registry Number 887918-30-1 CAPLOS

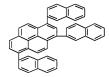
Chemical or Trade Name Pyreme, 1-bromo-3,6,8-trim(3-methylphenyl)- (CA INDEX NAME)

CAS Registry Number

Chemical or Trade Name Pyrams, 1-dodecyl-3,6,8-tri-2-naphthalenyl- (CA INDEX NAME)

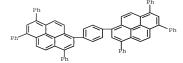
CAS Registry Number 887918-03-8 CAPLUS

Chemical or Trade Name Pyrene, 1,3,6-tri-2-naphthalenyl- (CA INDEX NAME)



CAS Registry Number 887918-09-4 CAPLOS

Chemical or Trade Mame Fyrence, 1,3,6-triphenyl-8-[4-(3,6,8-triphenyl-1-pyrenyl)phenyl]- (CA INDEX DAMA)



CAS Registry Number 887918-12-9 CAPLOS

Chemical or Trade Name Fyrence, 1,1'-[1,1'-biphenyl]-4,6'-diylbis[3,6,8-triphenyl- (9CI) (CA INEX: NBC)

$$\Pr_{Ph} = \Pr_{Ph} = \Pr_{Ph}$$

CAS Registry Number 887918-16-3 CAPLUS

Chemical or Trade Name Pyrene, 3,2-19,9-dihexyl-9H-fluorene-2,7-diyllbse[3,6,8-triphenyl- [CA TROOK DANG]

CAS Registry Number 887918-21-0 CAPLUS

Chemical or Trade Name 2,2'-dipyridime, 5,5'-bim(3,6,8-triphenyl-1-pyrenyl) (CA INDEX NAME)

CAS Requetry Mumber 887918-23-2 CAPLOS

Chemical or Trade Mame Pyreos, 1,1'=[1,1'-biphenyl]=3,3'-diylbis[3,6,8-triphenyl= (9CI) (CA INGER MAME)

$$\Pr_{P_h} = \Pr_{P_h} = \Pr_{P$$

Chemical or Trade Mame
Pyrece, 1,1'-[1,1'-bipheny1]-4,4'-diylbis[3,6,8-tris(3-methylpheny1)(9C1) (CA INDEX NAME)

os citing her count: 4 — There are 4 carlus neconds that cite this record (3 citings)

L5 ANSWER 22 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 2006/343128 CAPLUS <u>Full-texts</u>

144 39 1623

Trie Electronic devices containing organic semiconductors with low halogen content

ENGYONG COMOND CORRESS ON A STATE OF THE STATE OF T

Source PCT Int Appl , 31 pp CODBN PRXXD2

Document Type Patent

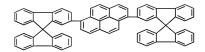
Language German

PATENT NO	KND	DATE	APPLICATION NO.	DATE
WO 200603745#	AL	20060413	NO 2005-EP10112	20050920
EP 1794218	Al	20070613	EP 2005-784377	20050920
JP 2009516421	7	20080515	JP 2007-533903	20050920
US 20080113468	A1	20080515	US 2007-664473	20070330

Abotto: The inventors related to our counter of control containing opposits sense conductors with a habopen content of CO ppm. As a result, the service like and efficiency of the convergencing selectoric covices. In Processed, and such mentions are review safetive for an incurrent effective devices in the control con

CAS Registry Number 723285-22-1 CAPLUS

Chemical of Trade Name 9,9'-Spiroba(90-fluorenel, 2,2''-(1,6-pyrenediyl)bis- (CA INDEX NAME)



OS CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD

L5 ANSWER 23 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN

ssion Number 2006 13624 CAPLUS <u>Full-fact</u>

Document Number 144 117443 Trie

Tide
Origano electroluminescent device
Authoritarientor
Vestrieber, Horst, Stoessel, Philipp, Gerhard, Arija, Parham, Amir
Patert Assigner Corporate Source
Coven Origano Semiconductors Gumb M., Germany

Source PCT Int. Appl , 36 pp. CODEN: PXXXD2

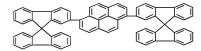
Language German Patent Information

PATENT NO	KIND	DATE	APPLICATION NO.	DATE
WO 2006000388	A1	20060105	WO 2005-EP6727	20050622
DE 102004031000	A1	20060112	DE 2004-102004031000	20040626
EP 1761962	A1	20070314	EP 2005-753649	20050622
EP 1761962	B1	20100203		
JP 2008504381	7	20080214	JP 2007-517189	20050622
AT 457085	7	20100215	AT 2005-753649	20050622
US 20090159874	A1	20090625	US 2007-630637	20070130

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CAS Registry Number 723285-22-1 CAPLOS

Chemical or Trade Name 9,9'-Spirobi|98-fluorene], 2,2''-(1,6-pyrenediyl)bis- (CA INDEX NAME)



OS CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

, L5 ANEWER 24 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN ACCESSION Number 2005 150075 CAPLUS <u>Put-1641</u>
Document Number 1449831

Process for preparation of fluorene derivatives as organic electroluminescent devices

Author Inventor

No. Missanoni, Yamamoto, Hinoshi, Hachiya, Safoshi, Kawamura, Hisayuki
Paferi Assignee Corporate Source
Idemitsu Kosan Co., Ltd., Japan

PCT Int. Appl: 68 pp. CODEN: PBXXD2

PC1 so. Document Type Patent

Language Japanese Patent Information KIND DATE APPLICATION NO. DATE PATENT NO.

WO 2005123634	A1	20051229	WO 2005-JP9024	20050516
CN 1842510	A	20061004	CN 2005-80001007	20050511
EP 1780191	A1	20070502	EP 2005-741059	20050511
US 20060159956	A1	20060720	US 2005-282640	20051121
US 7683225	B2	20100323		
KR 2007028284	A	20070312	KR 2005-7006217	20060330
IN 2006CN01079	A	20070817	N 2006-CN1079	20060330
US 20080303433	A1	20081211	US 2008-178807	20080724
US 7781628	82	20100824		
US 20100277063	AI	20101104	US 2010-838839	20100719

Abstract
The reverting persons is a created by produced to accompanie above. With produced to accompanie and act (A-Spirl') Company (in plantant) p. +210, q. +10, pm + 1 m + 110.7 and Y - independent) a storet, promote that of the produced and accompanies storet promote the produced produced and accompanies storet promote accompanies and accompanies storet promote accompanies and accompanies and

CAS Registry Number 872050-46-9 CAPLOS

Chemical or Trade Name Spiro(cyclobeane-1,9'-[98]fluorene], 2',7'-bis([1,1'-bipyren]-6-y1)-(901) (CA TNEE NAME)

PAGE 1-A

PAGE 1-B



OS CITING REF COUNTS 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)

L5 ANSWER 25 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 2003 1292773 CAPLUS <u>Publics</u> Document Number

144.42963

Asymmetric pyrene derivative and organic electroluminescent device using same to improve luminous efficiency and long life

Author Trrentor Kubota: Mineyuki, Funshashi, Masakazu, Hosokawa, Chiahio

Patent Assignee/Corporate Source Idemtsu Kosan Co., Ltd., Japan

PCT Int. Appl., 48 pp. CODEN PIXXD2

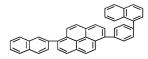
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005115950	A1	20051208	WO 2005-JPR494	20050510
EP 1749809	A1	20070207	EP 2005-739101	20050510
CN 1960957	A	20070509	CN 2005-00017149	20050510
US 20060154107	A1	20060713	US 2005-282582	20051121
US 7763761	B2	20100727		
KR 2007029717	A	20070314	KR 2006-7024933	20061127
IN 2006CN04355	A	20070629	IN 2006-CN4355	20061127
US 20100308718	A1	20101209	US 2010-795216	20100507
JP 2011066446	A	20110331	JP 2010-277867	20101214

Abstract

Closing or spring given derive. Noting bookstamin (Limstyn and ELLMAT) or AV = C5-th accretic group L. L. - phraybes, regardhamysive. Noting-in-endoperate plant in - 52 in - i.e. 1 = 52, 1 = 54, 6. An always in a specific plant in - 52 in - i.e. 1 = 52, 1 = 54, 6. An always in a specific plant in in - 52 in - i.e. 1 = 52, 1 = 54, 6. An always in a specific plant in a specif

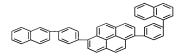
CAS Registry Number 870774-21-3 CAPLOS

Chemical or Trade Name Pyrene, 1-(2-naphthaleny1)-6-(4-(1-naphthaleny1)pheny1]- (CA INDEX NAME)



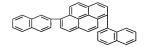
CAS Registry Number 870774-17-7 CAPLOS

Chemical or Trade Name Pycenc, 1-[4-(1-naphthaleny1)pheny1]-6-[4-(2-naphthaleny1)pheny1]- (CA TREE NAME)



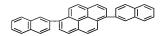
CAS Registry Number 879774-18-8 CAPLOS

Chemical or Trade Name
Pyrene, 2=(1-maghthalemy1)=6=(2-maghthalemy1)= (CA INDEX NAME)



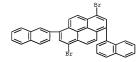
CAS Registry Number 663954-28-7 CAPLOS

Chemical or Trade Name Pyrece, 1,5-di-2-maphthalenyl- (CA INDEX NAME)



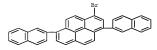
CAS Requetry Number 870774-32-6 CAPLOS

Chemical or Trade More Fyrene, 1,6-dibrono-3-(1-maphthaleny1)-8-(2-maphthaleny1)- (CA INDEX NAME)



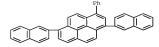
CAS Registry Number 870774-33-7 CAPLOS

Chemical or Trade Name Pyrene, 3-bromo-1,6-di-2-maphthalenyl- (CA INDEX NAME)



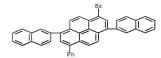
CAS Registry Number 870774-34-8 CAPLUS

Chemical or Trade Name Pyrene, 1,6-di-2-maphtbalenyl-3-phenyl- (CA INDEX NAME)



CAS Registry Number 870774-35-9 CAPLOS

Chemical or Trade Name Fyrene, 1-bromo-3,8-di-2-maphthalenyl-6-phenyl- (CA INDEX NAME)



CAS Registry Number 870774-23-5 CAPLUS

Chemical or Trade Name
Pyreme, 1-(1-naphthaleny1)-6-(2-naphthaleny1)-3,8-dipheny1- (CA INDEX

CAS Registry Number 870774-24-6 CAPLUS

Chemical or Trade Name
Pyrene, 1=[1,1*=bipheny1)=2=y1=3,8-di=2=naphtbaleny1=6=pheny1= (CA INDEX NAME)

OG CITING REF COUNT: S THERE ARE S CAPLUS RECORDS THAT CITE THIS RECORD (24 CITINGS)

L5 ANSWER 26 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 2005 1220377 CAPLUS <u>Pul-text</u> Document Number

143 459885 Title

Process for preparation of 1,6-dihalopyrene derivatives

Author Inventor
Funahashi, Masakazu
Patent Assignee Corporate Source
Idemtsu Kosan Co., Ltd., Japan

PCT Int. Appl., 34 pp. CODEN PIXXD2

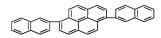
PCT Int. Ap Document Type Patent Language Japanese Patent Information

PATENT NO.	KND	DATE	APPLICATION NO	DATE
WO 2005108335	Al	20051117	NO 2004-JP14016	20040917
EP 1746080	A1	20070124	EP 2004-773400	20040917
CN 1953951	A	20070425	CN 2004-60042997	20040917
US 20080015399	A1	20080117	US 2006-568578	20061102
KR 2007011460	A	20070124	KR 2006-7023411	20061108
IN 2006CN04133	A	20070615	IN 2005-CN4133	20061110

Abstract
This reversion persons to a method to producing 1.6-disciplated 31-distinguiene denses represented by the following general formula I (effective RI and RI = negericality) productifield skyl, eye, easily, cyclosity, data, ye plays hold, cyclos, eye (and X - hold). For example, 1.6-disciplated earliers and recognitive seasons are recognitive to the seasons of the production of the seasons of the seaso

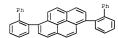
CAS Requetry Number 663954-28-7 CAPLOS

Chemical or Trade Name Pyrece, 1,6-di-2-moghthalenyl- (CA INDEX NAME)



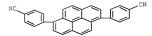
CAS Registry Number 86934G-09-0 CAPLUS

Chemical or Trade Name Pyrece, 1,6-bis([1,1"-biphenyl]=2-yl)= (CA INDEX NAME)



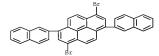
CAS Registry Number 869340-10-3 CAP1/03

Chemical or Trade Name Benzonitrile, 4,4"-(1,6-pyrenediyl)bis- (CA INDEX NAME)



CAS Requistry Number 869340-04-5 CAPLOS

Chemical of Trade Name Pyreme, 1,6-dibromo-3,8-di-2-naphthalenyl- (CA IMDEX NAME)



CAS Registry Number 86934G-QS-6 CAPLUS

Chemical or Trade Name Pyrene, 1,6-bis([1,1'-bipbenyl]-2-yl)-3,8-dibrose- (CA INDEX NAME)

CAS Requetry Number 86934G-G6-7 CAPLOS

Chemical or Trade Name Benzonitrile, 4,4°-(3,0-dibromo-1,6-pyrenediyl)bis- (CA INDEX NAME)

OS CITING REP COUNT: 1 THERE ARE 1 CAPAUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

LIS ANSWER 27 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 2005 122076 CAPLUS <u>Evilled</u> Description 1 Number 144 465509

The
Aromatic amino derivative, organic electricluminisecent element employing the same, and process for producing aromatic amino derivative
Althor/Limetic
Finalhalth, Massicacu
Plant League Corporate Source
Schrifth Konnic O. Ltd., Juan

PCT Int. Appl., 87 pp. CODEN PIXXD2

nt	Information				
	PATENT NO.	KND	DATE	APPLICATION NO	DATE
	WO 2005108348	Al	20051117	WO 2004-JP14020	20040917
	EP 1746085	Al	20070124	EP 2004-773404	20040917
	CN 1953960	λ	20070425	CN 2004-80042994	20040917
	JP 4188401	112	20081126	JF 2006-512914	20040917
	KR 2007011484	A	20070124	KR 2006-7023676	20061110
	IN 2006CN04140	Α	20070615	IN 2006-CN4140	20061110
	US 20070252511	A1	20071101	US 2006-596299	20061113

As promise minim derivative having a specific standare comprising a solidated given shadore and a subdished differentiation of the process of the process of the control of the process of the control of

CAS Registry Number 764657-27-4 CAPLUS

Chemical or Trade Name 1,6-Cyronedianine, N1,N1,N6,N6-tetrakim(3,4-dimethylphenyl)-3,8-diphenyl-(CA_INDEX_INDEX)

CAS Requestry Number 869496-83-3 CAPLUS

Chemical or Trade Name 1,6-Tyrenedianine, N1,N1,N5,N5-tetrakis(3-methylphenyl)-3,8-diphenyl- (CA INDEX NAME)

CAS Requetry Number 869496-84-4 CAPLUS

Chemical or Trade Name 1,6-Gyzenediamine, 3,8-diphenyl-N1,N1,N6,N6-tetrakis(3,4,5trinethylphenyl)- (CA INDEX NAME)

CAS Registry Number 869496-89-9 CAPLUS

Chemical or Trade Mans 1,6-Cyremediamins, 3,8-di-2-maphthalemy2-N1,N1,N6,N6-tetrakis(3,4,5-trimethylphemy1)- (C.NMEK NAME)

PAGE 2-A

CAS Registry Number 869496-85-5 CAFLUS

Chemical or Trade Mame 1,6-Dyrenedianine, 3,8-Dis[1],1*-Diphenyl]-2-yl]-N1,N1,N6,N6-tetrakis(3-methylphenyl)- (CA INDEX NAME)

CAS Registry Number 869496-86-6 CAPLUS

Chemical or Trade Name 1,6-Pyrenediamine, 3,8-bis([1,2'-bipbenyl]=2-y1)=N1,N1,N6,N6-betrakis(3,4-dimethylphenyl)= (CA INDEX NAME)

CAS Requetry Number 869496-87-7 CAPLOS

Chemical or Trade Name 1,5-Tyrenedianine, 3,8-bis(4-methylphenyl)-N1,85-bis(4-11-methylphenyl)benyl]- (CA IMDEX NAME) methylphenylphenyl]- (CA IMDEX NAME)

CAS Registry Number 869496-88-8 CAPLUS

Chemical or Trade Name

Renzonitrile, 4,4°-[3,8-bis[bis(3,6-dimethylphenyl)amino]-1,6pyrenediyl]bis= (901) (CA INDEX NAME)

CAS Registry Number 764657-28-5 CAPLUS

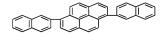
Chemical or Trade Name Dyreme, 1,6-dibromo-3,8-diphenyl- (CA INDEX NAME)

CAS Registry Number 869496-93-5 CAPLUS

Chemical or Trade Name Pyrene, 1,6-dibroso-3,8-big(4-methylphenyl)- (CA INDEX NAME)

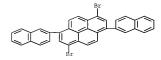
CAS Registry Number 663954-28-7 CAPLUS

Chemical or Trade Name Pyrene, 1,6-d1-2-naphthalenyl- (CA INDEX NAME)



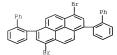
CAS Registry Number 869340-04-5 CAPLUS

Chemical or Trade Name
Pyrene, 1,6-dibrono-1,8-di-2-naphthalenyl- (CA INDEX NAME)



CAS Registry Number 869340-05-6 CAPLOS

Chemical or Trade Name Pyrame, 1,6-bis([1,1"-bigbenyl]=2-yl)=3,8-dibromo- (CA INDEX NAME)



CAS Registry Number 869340-06-7 CAPLOS

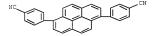
Chemical or Trade Name Benromitrile, 4,4"-(3,8-dibromo-1,6-pyrenediyl)bis- (CA INDEX NAME)

CAS Registry Number 869340-09-0 CAPLUS

Chemical or Trade Name Pyrene, 1,6-bis([1,1'-biphenyl]-2-yl)- (CA INDEX NAME)

CAS Registry Number 869340-10-3 CAPLUS

Chemical or Trade Name Benzonitrile, 4,4"-(1,6-pyrenediyl)bis- (CA INDEX NAME)



OS CITING REF COUNTS 8 THERE ARE 8 CAPLUS RECORDS THAT CITE THIS RECORD (23 CITINGS)

LS ANSWER 28 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 2005 119384 CAPLUS <u>Factors</u> 143.49114

Organic electrohuminescent device containing metal element and its littrication process.

Author (invertic his "Victim" (Naturyama Masarya Patern Radignes Corporate Source Figts. United Japon Figts.

Fujisu Limivu Sepui.
Source
PCT Int. Appl., 28 pp. CODBN: PBXXD2
Document Type
Patent

Language Japanese

PATENT NO	KND	DATE	APPLICATION NO.	DATE

WO 2005107329	Al	20051110	NO 2004-JP6047	20040427
CN 1977567	λ	20070606	CN 2004-80042888	20040427
CN 100581309	С	20100113		
US 20070231597	A1	20071004	US 2006-587692	20061026
US 7737632	82	20100615		
KR 2007015438	A	20070202	KR 2006-7024598	20061123
KR 832763	81	20080527		
US 20100216269	A1	20100826	US 2010-771127	20100430

Abstract
The reverbile relates to per outputs obtained the residual of the process of the proces

CAS Registry Number 13638-82-9 CAPLOS

Chemical or Trade Name Pyrene, 1,3,6,8-tetraphenyl- (CA INDEX NAME)

CAS Registry Number 790273-07-3 CAPLUS

Chemical or Trade Name Pyrene, 1,3,6,8-tetrakis[[2,1*-bipbeny1]=4-y1)= (CA INDEX NAME)

L5 ANSWER 29 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN ACOSSIGN Number 2005 1170780 CAPLUS <u>Fut-est</u>

Document Number 143 442452

Electroluminescent fluorinated pyrenes and LED devices made with such compounds.

Author-Inventor Ionkin, Alex Sergey, Wang, Ying Patent Assignee-Corporate Source E.I. Du Pont De Nemours and Company, USA

U.S. Pat Appl Publ., 11 pp CODEN USXXXO

Language English Patent Information

PATENT NO	KIND	DATE	APPLICATION NO	DATE
US 20050244645	Al	20051103	US 2004-833787	20040428
US 7358406	82	20080415		

Execution prices 18. In 18 Nov. 19 to study 4 described of prices proposed by Rodel configure 19. The First Prices of the Prices Hit Structure

Chemical or Trade Name
Pyrene, 1,8-bis[2,4-bis[trifluoromethy1]pheny1]-3,6-bis[3,5-bis[trifluoromethy1]pheny1]- (CA INDEX NAME)

CAS Registry Number 868555-70-8 CAPLUS

Chemical or Trade Name
Pyrene, 1,3,6,8-tetrakis|2,4-bis|trifluoromethyl)phenyl]- (CA INDEX NAME)

Chemical or Trade Name Pyreme, 1,3,6,8-tetrakis(2,3,4,5,6-pentafluorophenyl)- (CA INDEX NAME)

L5 ANSWER 30 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN

Accession Number 2005-1155359 CAPLUS <u>Full-text</u>
Document Number 143 413225

Preparation of silylated pyrenes and their use in active layers of electroluminescent devices

Author/Inventor No. 1999 - 199

U.S. Pat Appl Publ., 9 pp. CODEN USXXXOD

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20050238910	A1	20051027	US 2004-831845	20060626
US 7233019	B2	20070619		

The invention initiate to electrolumineacent skylated pyrene compose. It also relates to electronic devices an which the active layer includes an electrolumineacent skylated pyrene compound. Thus, e.g., Suzuki couping of 1, 28.8-4 related by the properties of the conductive of the

CAS Registry Number 867058-49-9 CAPLUS

Chemical or Trade Name Pyrene, 1,3,6,8-tetrakis|4-(trimethylmilyl)phenyl]- (CA INDEX NAME)

867058-50-2 CAPLUS

Chemical or Trade Name Pyreme, 1,3,6,8-tetrakim[3-(trimethylmily1)pheny1]- (CA INDEX NAME)

OS CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L5 ANSWER 31 OF 96 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 2005 1146473 CAPLUS <u>Full-ted</u> Document Number 143, 42655

Title Organic electroluminescent device and organic electroluminescent display Author/Inventor Ital, Yulchin Pattert Asognie Corporate Source Figtes United, depart

PCT int Appl , 32 pp CODEN PEXXD2

Document Type Patent

Language Japanese Patent Information

PATENT NO.	KND	DATE	APPLICATION NO.	DATE
WO 2005101911	AL	20051027	NO 2004-JP4662	20040331
TW 252051	2	20060321	TW 2004-109675	20040330
JP 4439003	92	20100324	JP 2006-512162	20040331
US 20070285005	A1	20071213	US 2007-594600	20070608
US 7871711	82	20110118		

Administration of the second o

CAS Registry Number 190213-07-3 CAPLUS

Chemical of Trade Name
Pyrece, 1,3,6,8-terrakis([1,1'-biphenyl]-6-yl)- (CA INDEX NAME)

, L5 ANSWER 32 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 2005 11:3054 CAPLUS <u>Full-led</u>
Document Number 143 42603

Title Organic electrolaminescent device
Author/Inventor
Fundashi, Massikaru
Patent Assignee Corporate Source
Solentta Kosan Co. LSI, Japan
Source
Jon Kolsai Toskiyo Koho, 28 pp. CODEN: JKOXAF
Document Tive Jpn Kokar Document Type Patent Language Japanese Patent Information

PATENT NO.	KND	DATE	APPLICATION NO	DATE
JP 2005302667	A	20051027	JP 2004-120923	20040415
WO 2005101913	Al	20051027	NO 2005-JP4898	20050408
EP 1737277	Al	20061227	EP 2005-728719	20050400
CN 1943278	A	20070404	CN 2005-80011361	20050400
US 20070202354	A1	20070830	US 2006-547233	20051003
IN 2006CN03792	A	20070622	IN 2006-CN3792	20051012
KR 2007004843	A	20070109	KR 2006-7021357	20061013

Abstract
The invention related to an organic electroluminescent device comprising an electroluminescent layer sandanched between a pair of electrodas, wherein the electroluminescent layer comprises CIO-100 any lamne and a conference dispracement guarance represented by (Art)-1, [Ar = CM-100 animatic hydrocarbon and CI>-00 amustic hydrocycle, a = 2-6 enteger, L = a valent condensed polycyclic animatic residual.

HE Direction

CAS Registry Number 764657-27-4 CAPLUS

Chemical or Trade Name 1,5-05/constants (3,4-dimethylphenyl)=3,8-diphenyl=(CA_INDEN_INME)

CAS Registry Number 868273-29-6 CAPLOS

Chemical or Trade Name 1,6-Tyremedianine, N1,N6,3,8-tetrakis(4-methylphenyl)-N1,N6-bis(3,4,5-teinethylphenyl)-(CAINDEX MMS)

OS CITING REF COUNT: 1 THERE ARE 1 CAPIUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L5 ANSWER 33 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN

Accession Number 2005 1144923 CAPLUS Full-lext

Document Number 14429415

Title

Lateral organic light-emitting clode with field-effect transistor characteristics Author/Inventor

Oyamada, Takahito, Uchiuzou, Hiroyuki, Akiyama, Seiji, Oka, Yoshiaki, Shimoji, Noriyuki, Matsushige, Kazumi, Sasabe, Hiroyuki, Adachi, Chihaya

Pattern Assigner Corporate Source
Department of Photonics Materials Science, Chitose Institute of Science and Technology (CIST), 758-65 Bits, Chitose, Holdards, 666-6655, Japan

Journal of Applied Physics (2005), 98(7), 074506/1-074506/7 CODEN, JAPIAU, ISSN: 0021-8979

Language English

Hit Structure

CAS Registry Number 13638-82-9 CAPLOS

Chemical or Trade Name Pyrene, 1,3,6,8-tetraphenyl- (CA INDEX NAME)

$$\Pr_{Ph} = \Pr_{Ph}$$

OS CITING REF COUNTS 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD

L5 ANSWER 34 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN

Accession Number 2005 1042257 CAPLUS <u>Pul-ted</u> Document Number 143 347290

Preparation of polycyclic hydrocarbon organosalanes, process for production of the same, and use thereof

Preparation or popyress representations of the Preparation or popyress representation of the Preparation of the Preparation of the Patient Assignme Corporate Source
Sharp Kabushis Kasha, Japan

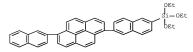
PCT Int Appl., 131 pp CODEN PIXXD2 Document Type

PATENT NO	KND	DATE	APPLICATION NO.	DATE
WO 2005090365	Al	20050929	NO 2005-JP4658	20050316
JP 2005263721	A	20050929	JP 2004-80333	20040319
JP 2005269100	A	20050929	JP 2004-#0375	20040319
JP 4416546	82	20100217		
JP 2006062966	A	20060309	JP 2004-243508	20040924
JP 2005298485	A	20051027	JP 2005-67516	20050310
CN 1950382	A	20070418	CN 2005-80014402	20050316
JP 2005298496	A	20051027	JP 2005-79667	20050318
JP 4612443	82	20110112		
US 20080207864	41	20080828	HS 2008-593204	20080318

Quantizative represented by the operand terms in CTA GEXTUSSE (Meries'T C on a regard in page dependent from a tased polycyclic hydrocation constituted of two to be in 7 and to 6 membered monocyclic hydrocations, e.g. Q.
O. Cli. 2012 and D herman in 2 an integer of 10 to 10 t

Hit Structure

Chemical or Trade Name Pyrene, 1-(2-naphthaleny1)-6-[6-(triethoxyaily1)-2-naphthaleny1]- (CA INDEX NAME)



Chemical or Trade Name Fyrene, 1-(6-bross-2-naphthalenyl)-6-(2-naphthalenyl)- (CA INDEX NAME)

CAS Requestry Number 865648-05-1 CAPLOS

Chemical or Trade Name Magnesium, broso [6-[6-(2-maghthaleny1)-1-pyzeny1]-2-maghthaleny1]- [9CI) (CA INDEX MANG)

OS CITING REF COUNT: 8 THERE ARE 8 CAPIUS RECORDS THAT CITE THIS RECORD [14 CITINGS]

LS ANSWER 35 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN

Accession Number 2005 902579 CAPLUS Fulbest Document Number 143 256816

White organic electroluminescence device

Author/investor, Fukudik, Kenchi, Kubota, Mineyuki, Funshashi, Masakazu Paterti Asagnee Corporate Source Identisu Kosan Co., Ltd., Japan

PCT Int. Appl., 63 pp. CODEN: PIXXD2

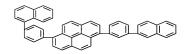
ment Type Patent

.arguage	
Japanese	
Patient Information	

PATENT NO	KND	DATE	APPLICATION NO.	DATE
WO 2005091507	A1	20050901	WO 2005~JP2442	20050217
EP 1719124	Al	20061102	EP 2005-719244	20050217
CN 1879454	λ	20061213	CN 2005-80001270	20050217
US 20070063638	A1	20070322	US 2006-573661	20060328
KR 2006115372	A	20061108	KR 2006-7008168	20060427

Account in previous refer to a whis regard descharations conserved done companing a run, pleasable and a pass described and elegance destinates one or more a graph in this type. Including all least a light entiting type in a constrained of all invented has been destined for all invented and invented and

Chemical or Trade Name Pyrene, 1-[3-(2-naphtbalenyl)phenyl]-6-[4-(1-naphtbalenyl)phenyl]- (CA INDEX NAME)



OS CITINO REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD

L5 ANSWER 36 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 2005 654250 CAPLUS EXHAUS

Document Number 143 275223

Tetra-substituted pyrenes: new class of blue emitter for organic light-emitting diodes

Authoritorido greens nor caso o our emiser so upon mayor com-Authoritorido.

Authoritorido (Productiva de Carolina Marcari, Talahadh, Todrino, Malaura, Auma, Kodama, Jun, Sandiai, Noro, Inou, Heosh Panet Asignes Copresta Source

Functional Organo (Adeesas Lidonatory, Fujicu Laboratores Limited, Mornocado-Walamaya, Alsug, 247-4197, Japan

Title Digest of Technical Papers - Scowly for Information Display International Symposium (2003), 34, 1294-1297 CODEN: DTPSDS Journal (17)e Journal (10) (Computer optical disk)

To the have developed a new class of highly-fusvescent blue emiter for organic light-emitting clodes (OLEDs) consisting of latine-substituted givenes. From the anal of the excited state diagrams of pyene and its derivs, by MO calons, we found that the new tethe-substituted pyenes are emitters showed high efficiency and good color purity. Hit Structure

CAS Registry Number 13630-02-9 CAPLOS

Chemical or Trade Name Pyrene, 1.3,6,8-tetraphenyl- (CA INDEX NAME)

CAS Registry Number 190213-01-3 CAPLUS

Chemical or Trade Name
Pyrene, 1,3,6,0-tetrakis(|1,1'-biphenyl)-6-yl)- (CA INDEX NAME)

863639-30-9 CAPLUS

Chemical or Trade Name Pyreme, 1,3,6,8-tetrakis(3,5-dimethylphenyl)- (CA INDEX NAME)

CAS Registry Number

Chemical or Trade Name Pyrene, 1,3,6,8-tetrakis|4-(1,1-dimethylethyl)phenyl]- (CA INDEX NAME)

os, citing ref count: 3 — There are 3 caplus records that cite this record (3 citings)

L5 ANSWER 37 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN ACCASION Number 2003 310613 CAPLUS F16-5929
Document Number 144 13829

Title

High-performance blue OLEDs based on a stencally hindered pyrene host material

Inventor
Yeh, Chia-Chun; Lee, Meng-Ting, Chen, Hsian-Hung, Chen, Chin H.

Patent Assignee Corporate Source
Department of Applied Chemistry, National Chiao Tung University, Hanshu, Tawan, 500, Tawan

Source Digest of Technical Papers - Society for Information Display International Symposium (2004), 33, 789-791 CODEN DTPSDS Document Type Journal (computer optical disk)

Absorber: The authors developed a blas organis high entitling device (OLLD) entitle board on a statistical included biomoscort had maked at lessing-badgeures (OTIT) which officing support and the state of the stat

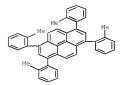
Chemical or Trade Name Pyrene, 1,3,6,8-tetrombenyl- (CA INDEX NAME)

CAS Registry Number 870133-71-4 CAPLUS

Chemical or Trade Name Pyrene, 1,3,6,8-tetrakis(3-methylphenyl)- (CA INDEX NAME)

CAS Registry Number 870133-72-5 CAPLOS

Chemical or Trade Name Fyrens, 1.3,6,8-tetrakis(2-methylphenyl) (CA INDEX NAME)



OS.CITING REF COUNT: 13 THERE ARE 13 CAPLUS RECORDS THAT CITE THIS RECORD (13 CITINGS)

L5 ANSWER 38 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN

Accession Number 2005 325561 CAPLUS <u>Full-lex.5</u>

Title Pyrane derivative, light emitting element, and light emitting device Author Investor Norman, Ryoji, Takasu, Takako, Abe, Hiroko, Tokuda, Atsushir Norman, Ryoji, Takasu, Takako, Abe, Hiroko, Tokuda, Atsushir Norman, Regional Components Source Partners (Service Commondation Emitting Laboratory Co., Ltd., Japan)

U.S. Pat Appl Publ., 22 pp. CODEN USXXCO

Language English

Patent Information

PATENT NO	KIND	DATE	APPLICATION NO.	DATE
US 20050079385	A1	20050414	US 2004-954341	20041001
US 7232619	82	20070619		
JP 2005126431	A	20050519	JP 2004-289684	20041001

Mostald It is an object of the present revention to provide a gyerner derivative that is suitably to synthesize and is superior in quality in the case of forming a film. It is an object of the present invention to provide a light element of the present invention to provide a light element or the present invention to provide a light element or the present invention to provide a light element or the present invention to provide a light element or the present invention to provide a light element or the present invention to provide a light element or the present invention to provide a light element or the present invention to provide a light element or the present invention to provide a light element or the present invention to provide a light element or the present invention to provide a light element or the present inventor to provide a light element or the prese

Chemical or Trade Name Pyrene, 1,3,6,8-tetrakis([1,1*-biphenyl]-2-yl)- (CA INDEX NAME)

OS CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (8 CITINGS)

L5 ANSWER 39 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN

Accession Number 2005/29/2393 CAPLUS Full-leus Document Number 143 16108

White organic light-emitting clode comprising of blue fluorescence and red phosphorescence

Multis organic light-muniture
Author/Inventor
Author/Inventor
On Dasham, Too Ye
Patent Aozignes Capareis Source
National Research Council of Canadia, Institute for Microshuctural Sciences, Ottawa, CN, K1A 0R6, Can

Applied Physics Letters (2009), 86(11), 11350771-1135073 CODEN. APPLAB, ISSN 0003-6951 Cocument Type

Journal

Language English Abstract

The control of the century close with the sources of TROMPS to the CTTAN-S, TPS of the CTTAN-S, Test is usually as well as a fast of the century close of th Hit Structure

Chemical or Trade Name Fyrene, 1,3,6,8-tetrapheny2- (CA INDEX NAME)



OS CITING PER COUNTS 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L5 ANSWER 40 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 2005 212654 CAPLUS <u>Full-text</u>

Document Number 142 287607

Organic electroluminescent devices showing high luminescence efficiency and good durability

Organic erects own.

Author/Inventor
Aral, Kazumi, Igarashi, Tatsuya; Mishima, Mesayuki
Patiert Assignie-Corporate Source
Fuji Photo Plim Co., Ltd., Japan

Jpn Kokai Tokkyo Koho, 46 pp. CODEN JKXXAF

u	rrormation				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	JP 2005063938	A	20050310	JP 2004-72452	20040315

The devices have emitter layers containing first metal complex hosts having Tip 2:140°, second condensed aromatic compd hosts theying decomposition starting temperature 2500° and luminescent materials. Thus, an organic device used an emitter layer containing trate-hydroxyquandinato|alumnum, 1,3,2-in/3-byten/(betracene, and sed-emitting slips) compound I.

Hit Shudure

CAS Registry Number 847142-52-3 CAPLOS

Chemical or Trade Name Pyrece, 1,6-bis [4',5',6'-tripheny1]1,1'12',3''-terpheny1]-3'-y1)- (9CI) (CA INCEX NAME)

$$\Pr_{Ph} \xrightarrow{Ph} \Pr_{Ph} \xrightarrow{Ph} \Pr_{Ph}$$

L5 ANSWER 41 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 2005 131766 CAPLUS FL6-3eye

Document Number

142 400 200 Trie

increased electrophosphorescent efficiency in organic light emitting diodes by using an exoton-collecting structure

Author/Inventor Qin. Dashan, Tao, Ye

Patent Assigned Corporate Source
National Research Council of Canada, Institute for Microstructural Sciences, Ottawa, ON, K1A 6R6, Can

Source Journal of Applied Physics (2005), 97(4), 044505/1-044505/4 CODEN, JAPIAU, ISSN: 0021-8979

Language English

ADDRESS

ADD

CAS Registry Number 13638-82-9 CAPLOS

Chemical or Trade Name Pyrese, 1,3,6,8-tetraphenyl- (CA INDEX NAME)



L5 ANSWER 42 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN

Accession Number 2005 75901 CAPLUS <u>Full-text</u> Document Number 142 185928

Trio Organic electroluminescent (EL) devices with improved electron-injection efficiency and tall-color flat displays using them Author Tirentor Nakayama, Masaya, Kinoshita, Shoji Kodama, Alsushi

Patent Assignee Corporate Source Fujfsu Ltd., Japan

Source Jpn Kekei Tokkye Kehe, 20 pp. CODEN: JKXXAF

Language Japanese Patent

Abstract

:1	nformation				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	JP 2005026210	A	20050127	JP 2004-85516	20040323

n.
The devices have hole-transporting layers, lighth-emitting layers, and electro-transporting layers in this coder between anodes and cathodes, satisfying that [Ea(em) - Ea(em)] = 0.15 eV and [Ea(em) - Ea(emi)] = 0.15 eV

Ea(emi) [Ea(efi), Ea(ef) = electron attriby of light-emitting layer, hole-transporting layers and electron-transporting layer, resp.]. The displays, using the devices as blue-emitting sources, show improved brightness. Hill Structure

CAS Registry Number 13638-82-9 CAPLOS

Chemical or Trade Name Pyrene, 1,3,6,8-tetraphenyl- (CA INDEX NAME)



THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS) OS CITING REF COUNTS

Accession Number 2004:1035604 CAPLUS <u>Full-text</u> Document Number

142 29757

Dibenzospiro compounds, freir organic solutions for manufacture of luminescent films, and blue-emitting organic electroluminescent devices using them Author/Inventor

Inventor Inque, Tetsuya; Ikeda, Shuy; Hosokawa, Chishio

Patent Assignee Corporate Source Identitsu Kosan Co., Ltd., Japan

Source

Jpn. Kakai Talikiya Kaha, 49 pp. CODEN: JKXXAF Document Type Patent

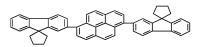
Language

PATENT NO	KIND	DATE	APPLICATION NO	DATE
JP 2004339136	A	20041202	JP 2003-136838	20030515
WO 2004110968	A1	20041223	WO 2004-JP6331	20040430
EP 1623968	A1	20060208	EP 2004-730688	20040430
CN 1791567	A	20060621	CN 2004-80013354	20040430
US 20070042220	A1	20070222	US 2005-556530	20051114

Abstract The company is grant to the company of the

CAS Registry Number 199560-33-1 CAPLUS

Chemical or Trade Mane Spiro[cyclopentane-1, 9'=[2H]fluorene], 2',2''-(1, ℓ -pyrenediy1)bis- [CA INDEX MANU]



THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS) OS CITING REP COUNTS 1

L5 ANSWER 44 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN

Accession Number 2004 1035145 CAPLUS <u>Full-text</u> Document Number 142 13489

Trie White-emitting organic electroluminescent devices employing a light-emitting materials containing substituted pyrene structural units

Author/Immediate graphic desire committee on describe employing a systemating Author/Immediate Saskamoto, Yukinari, Ichimura, Man, Kashwabara, Mitsuhiro, Tamura, Shinichko Pafant Assignia Corporate Source Sony Corporation, Japan

Eur Pat Appl., 20 pp. CODEN: EPXXDW Document Type

Language English

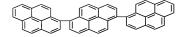
Patent Information

PATENT NO	KIND	DATE	APPLICATION NO.	DATE
EP 14#2573	A2	20041201	EP 2004-12472	20040526
EP 1482573	A3	20070725		
TW 201362	в	20070511	TW 2004-115125	20040521
KR 2004103439	A	20041208	XR 2004-38477	20040526
JP 2005011806	A	20050113	JP 2004-159060	29940528
JP 4529547	82	20100025		
us 20070152566	A1	20070705	US 2004-856043	20040526
US 7244516	B2	20070717		
CN 1575067	A	20050202	CN 2004-10076617	20040533
CN 100533811	c	20090826		

Opport electrolaminement describe an described with congress on regards layer larger species on many and being disposed between an mode and a callowing where the regards layer contribution, as an opport light entire processing and independent on the confidence of the contribution of th

CAS Requetry Number 197051-13-9 CAPLUS

Chemical or Trade Name 1,1's6',1''-Terpyrene (9CI) (CA INDEX NAME)



CAS Requetry Number 197051-14-0 CAPLUS

Chemical or Trade Name 1,1'16',1''-Terpyrene, 6,6''-dimethyl- (9CI) (CA INDEX NAME)

OS.CITING REP COUNT: 2 THERE ARE 2 CAPAUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L5 ANSWER 45 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 2004 95334 CAPLUS Fig. 5927
Document Number 141 403312

1,3,6,8-Tetrasubstituted pyrene compounds, organic electroluminescent device and organic electroluminescent display 1.3 & F. Ternsubshikkoo pyrene core, wasan, wega-uhrbalmerteel Authoritemeteel Softyama, Wataru, Sah, Hiroyaki, Matsuura, Aruma, Kinochita, Masaru, Takshashi, Toshiro Patern Assignee Corporate Source Fuglisu Limited, Japan

Source PCT Int, Appl , 67 pp CODEN PBXXD2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004094945	Al	20041111	WO 2003-JP5577	20030501
EP 1621597	A1	20060201	KP 2003-721011	20030501
US 20050238920	A1	20051027	US 2005-166692	20050627

Awaysson

The reversion refers to an organic electivibuminisacient device combining, as a luminescent material, a 1,3,6,5-th traubstituted pyrene compound wherein the substituter are Ph imps with at least one substituted any as a substituter.

His Droublier

His Droublier

CAS Requetry Number 790273-07-3 CAPLOS

Chemical or Trade Name Pyrene, 1,3,6,8-tetrakis[[1,1*-bipheny1]-4-y1]- (CA INDEX NAME)

CAS Registry Number 790273-08-4 CAPLUS

THREE ARE 9 CAPLUS RECORDS THAT CITE THIS RECORD (18 CITINGS)

Accession Number 2004:953198 CAPLUS <u>Fur-was</u> Document Number 141:403311

Title

Title

1.3.6.5 Tensubstituted pyene compounds, agunic electroluminescent device and aganic electroluminescent display
Author Innester

Satoyama, Wataru
Patert Acopyas Corporate Source
Figtou Innest, Jupon

Surrea
PCT Int. Appl., 45 pp. CODEN! PIXXD2
Document Type
Patient
Language
Japanese
Patient Information

PATENT NO	KIND	DATE	APPLICATION NO	DATE
WG 2004096743	A1	20041111	WO 2003-JP5417	20030429
EP 1619177	A1	20060125	KP 2003-728002	20030429
EP 1619177	B1	20080227		
JP 4192152	102	20081203	JP 2004-571293	20030428
US 20050156164	A1	20050721	US 2005-74899	20050309
US 7571894	B2	20090811		

Abstract
The inventors refers to an appartic absorbateminasseral device containing, as a baseless cert material, a 1,18,5-fetrosubchfluid genee compound wherein the subclisures are Ph ings containing at least one of the following as its abstract - 1,496-77, -2,696-9610, -5,611, or -5,012 [6-12 - Hor substatent]

If Structure is a substanct - 1,496-77, -2,696-9610, -5,611, or -5,012 [6-12 - Hor substanct]

CAS Registry Number 790722-24-3 CAPLUS

Chemical or Trade Name Pyrece, 1,3,6,8-tetrakie(4-phenoxyphenyl)- (CA INDEX NAME)

CAS Requetry Number 790721-25-4 CAPLUS

Chemical or Trade Name Benzenamine, 3,3°,3°,3°,3°''-(1,3,6,8-pygenetetrayl)tetrakis[N-(3-methylphenyl)-W-phenyl- (CA INDEX NAME)

CAS Registry Number 190721-26-5 CAPLOS

Chemical or Trade Name 1,3-Denzemedianine, 5,5',5'',5''-(1,3,6,8-pyremetetrayl)tetrakis[N,N'-bls(3-methylphenyl)-9,8''-diphenyl- (9CI) (CA INDEX NAME)

PAGE 1-A

CAS Registry Number 190721-23-6 CAPLOS

Chemical or Trade Name Pyrene, 1,3,6,8-tetrakis(3-chlorophenyl)- (CA INDEX NAME)

OS CITING REF COUNT: 4 THERE ARE 4 CAPAUS RECORDS THAT CITE THIS RECORD (9 CITINGS)

L5 ANSWER 47 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 2004 79595 CAPLUS Full-bast Document Number 141304000

Tel Posses for program of 1,6-bit(ofpen) terrinol/greno delinativos as electrohemineaced Gericos Astrol. Invata.
Parameter: Astrol. Invata.
Parameter: Astrol. Invata.
Parameter: Astrol. Invata.
Invata. Inva

Source PCT Int. Appl., 51 pp. CODEN: P00XD2
Document Type
Patent
Language
Japanese
Special Source of Source Internation

ŧ	ntermation				
	PATENT NO.	KIND	DATE	APPLICATION NO	DATE
	WO 2004083162	A1	20040930	WO 2004-JP2945	20040308
	EP 1604974	A1	20051214	EP 2004-718430	20040308
	CN 1784376	A	20060607	CN 2004-80012602	20040308
	CN 101343234	A	20090114	CN 2008-10099080	2004030R
	JP 4267623	132	20090527	JP 2005-503649	20040308
	IN 2005CN02302	A	20070406	XN 2005-CN2302	20050919
	IN 229393	A1	20090320		
	US 20070009758	A1	20070111	US 2005-549801	20051121

IN 2008CN01626 A 20090109 IN 2008-CN1626

The reviews postants is a review both for code any following immigrance does. I pleave in A. H. suppostables dudy in gift, a subject on the contract of the code o

Chemical or Trade Name 1,6-Tyronedianies, N1,N1,N6,N6-tetrakim(3,4-dimethylphenyl)=3,8-diphenyl-(CA_INDEX_NNE)

CAS Requetry Number 764657-28-5 CAPLOS

Chemical or Trade Name Pyrene, 1,6-dibrono-3,8-diphenyl- (CA INDEX NAME)

OS CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

LS ANSWER 48 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 2004 756795 CAPLUS <u>FM-H935</u>

141 285537

Title
Organic electroluminescent device employing a derinative of 9,10-diamnocenthiscene as a green luminescent depart.
AuthorIlmentor
See, Jeong Dae, Kim, Hee Jung, Lee, Kyung Hoon, Ch, Hyeung Yun; Kim, Myung Seop, Pleik, Chun Qun
Patent Assignes Copystate Source
LG Electronic Ho, SI Kreva
LG Electronic Ho, SI Kreva

Source PCT Int. Appl., 35 pp. CODEN: P80XD2
Dosument Type
Paterni

Pari

ge English Mormation				
PATENT NO	KIND	DATE	APPLICATION NO.	DATE
WO 2004076872	A2	20040916	WO 2004-KR472	20040305
WO 2004078872	A3	20041216		
KR 2004079803	A	20040916	KR 2003-20468	20030401
US 20040209118	A1	20041021	US 2004-792130	20040304
US 7651788	82	20100126		
EP 1603990	A2	20051214	EP 2004-717900	20040305
CN 1771313	A	20060510	CN 2004-80009251	20040305
JP 2006519477	T	20060824	JP 2006-500655	20040305
JP 4129990	82	20080806		
JP 2008172229	A	20080724	JP 2008-48	20080104

Abstract

Ognic indexthatement descriptions (OLDs) are ducated with compiler a subsidier, it is fail and second enduction terms on the adduction and is pigle-ending layer formed between the fail and called and in the contract of the second or the adduction and in the contract of the second or the contract or contra

CAS Registry Number 55009-75-1 CAPLUS

Chemical or Trade Name Pyrene, 1,6-diphenyl- (CA INDEX NAME)

CAS Requetry Number

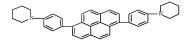
Chemical or Trade Name
Pyrene, 1,6-bis([1,1':3'.3''-terphenyl]-5'-yl)- (901) (CA INDEX NAME)

CAS Registry Number 722498-69-3 CAPLUS

Chemical or Trade Name Pyrene, 1,6-di-1-maphthalenyl- (CA INDEX NAME)

CAS Registry Number 122428-10-6 CAPLUS

Chrmical or Trade Name Piperidine, 1,1'-(1,6-pyrenediyldi-4,1-phenylene)bis- (9CI) (CA INDEX NAME)

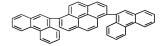


CAS Requestry Number 122498-11-7 CAPLUS

Chemical of Trade Name Pyrene, 1,5-bis([1,1'-biphenyl]-6-yl)- (CA INDEX NAME)

CAS Registry Number 122498-12-8 CAPLOS

Chemical or Trade Name Pyrene, 1,6-di-9-phenanthrenyl- (CA INDEX NAME)



CAS Requetry Number 722498-73-9 CAPLOS

Chemical or Trade Name Pyrene, 1,6-bis[4-(1,1-dimethylethyl)phenyl]- (CA INDEX NAME)

CAS Registry Number 722498-74-0 CAPLUS

Chemical or Trade Name
Pyrene, 1,6-bis(9,9-dimethy1-9H-fluoren-2-y1)- (CA INDEX NAME)

CAS Registry Number 722498-75-1 CAPLUS

Chemical or Trade Name Pyrene, 1,6-di-2-biphenylenyl- (CA INDEX NAME)

OS CITING REF COUNT: 4 THRRE ARE 4 CAPAUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

L5 ANSWER 49 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN ACCESSION Number 2015 Septem CAPLUS F16-5622
Document Number 141131054

Organic electroluminescent elements and sprobiliuorene derivatives useful in them

Organic electrollusmenscom sertroms are up-duthor/invector. Vestareber, Horst, Genhard, Anja, Shessel, Philipp, Spreitzer, Hubert Patient Assigner Corporate Source Covinn Organic Semiconductors GmbH, Germany

PCT Int, Appl , 30 pp CODEN PIXXD2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004058911	A2	20040715	WO 2003-EP13927	20031209
WO 2004058911	A3	20051208		
EP 1574885	A2	20050928	EP 2003-7#233#	20031209
CN 1756924	A	20060405	CN 2003-00107453	20031209
CN 100489056	С	20090520		
JP 2006511939	T	20060406	JP 2004-562714	20031209
KR 1030158	81	20110418	X3. 2005-7009842	20031209
US 20060063027	A1	20060323	US 2005-540461	20050721

70. Organic electroluminescent devices are described in which the emitting layer consists of a minture of 21 hole-transporting material and 21 emitting material in a weight ratio (hole-transporting material emitting material) of 1.99 to 99 emitting material emitting emitted emitting emitted emitted emitting emitted emitted emitting emitted emitting emitted emitting emitted emitting emitted emi

CAS Registry Number 723285-22-1 CAPLUS

Chemical or Trade Name 9,9'-Spirobi(98-fluorene), 2,2"-(1,6-pyrenediyl)bis- (CA INDEX NAMS)

CAS Registry Number 723285-24-3 CAPLUS

Chemical or Trade Name
Pyrene, 1,3,6,8-tetrakis||1,1'-bipheny1|-2-y1}- (CA INDEX NAME)

ON CITING REF COUNT: 8 THERE ARE S CAPAUS RECORDS THAT CITE THIS RECORD (12 CITINGS)

L5 ANSWER 50 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 2004 58210 CAPLUS PSANS
Document Number 141131023

Organic electroluminescent devices employing blue-emitting dopants based on amine derivatives of pyrene Author/Inventor

See, Jeong Daer, Lee, Kyung Hoon, Kim, Hee Jung; Park, Chun Gun; Oh, Hyoung Yun Panert Azsignee Corporate Source Lg Elschronoz Inc., S. Krosea

Lig Electronics inc., c., roc.—
Source
Eur. Pat. Appl., 43 pp. CODEN EPXXDW
Document Type
Patent

Language English

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1437395	A2	20040714	EP 2003-29661	20031223
EP 1437395	A3	20050831		
KR 2004057862	A	20040702	XX 2003-20465	20030403
us 20040137270	A1	20040715	US 2003-743778	20031224
US 7700201	82	20100420		
JP 2004204238	A	20040722	JP 2003-429297	20031224
JP 3926791	82	20070606		
CN 1535089	A	20041006	CN 2003-10124405	20031224
ON 100481574	С	20090422		
JP 2007027779	A	20070201	JP 2006-245563	20060911
US 20100155714	At	20100624	US 2010-714639	20100301

The process of the pr

Chemical or Trade Name Fyrene, 1,6-diphenyl- (CA INDEX NAME)

CAS Registry Number 122498-68-2 CAPLUS

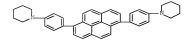
Chemical or Trade Name Pyrene, 1,6-bis([1,1":3",2"-terphenyl]-5"-yl)- (901) (CA INDEX NAME)

CAS Registry Number 722498-69-3 CAPLUS

Chemical or Trade Name Pyrene, 1,6-di=1-maphthalenyl= (CA INDEX NAME)

CAS Registry Number

Chemical or Trade Name Piperidine, 1,1'-(1,6-pyrenediyldi-4,1-phenylene)bis- (PCI) (CA INDEX NAME)



CAS Registry Number 122498-11-7 CAPLOS

Chemical or Trade Name Pyrece, 1,6-bis([1,1'-biphenyl]-4-yl)- (CA INDEX NAME)

CAS Requetry Number 722498-72-8 CAPLUS

Chemical or Trade Name Pyrene, 1,6-di-9-phenanthrenyl- (CA INDEX NAME)

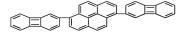
CAS Registry Number 722498-73-9 CAPLUS

Chemical or Trade Name
Pyrene, 1,6-bis[4-(1,1-dimethylethyl)phenyl]= (CA INDEX NAME)

CAS Registry Number 722498-74-0 CAPLUS

Chemical or Trade Name Fyrene, 1,6-bis(9,9-dimethyl-9M-fluoren-2-y1)- (CA INDEX NAME)

CAS Registry Number 122408-15-1 CAPINS



OS CITING REF COUNT: 11 THEME ARE 11 CAPADS RECORDS THAT CITE THIS RECORD (30 CITINGS)

L5 ANSWER 51 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN

Accession Number 2004 162607 CAPLUS <u>Full-2025</u> Document Number 140 225502

Tite

Tife Oligoarylene derivatives for organic electrolumanescent devices. Author/Investor. Rede, Hidelsugu. Matsuura, Masshide, Kareamura, Hisayuko Patenti Asagone Curposta Gource.

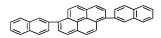
Source
PCT Int. Appl., 35 pp. CODENI PIXXD2

Document Type Patent

PATENT NO	KIND	DATE	APPLICATION NO.	DATE
WO 2004016575	A1	20040226	WO 2003-JP10071	20030907
JP 2004075567	A	20040311	JP 2002-234833	20020812
EP 1533290	A1	20050525	EP 2003-788055	20030807
CN 1675149	A	20050928	CN 2003-819058	20030807
TW 207400	в	20070921	TW 2003-122023	20030811
US 20060134456	A1	20060622	US 2005-522546	20050127
US 7429425	B2	20080930		
US 20090009073	AI	20090108	US 2008-208237	20080910
US 20090009074	AI	20090108	US 2008-206253	20060910

The previous rates to object from a representative AV-CA-AC_CD14_CD4_APA_(10-CD4_1CD5-AL_and AP-CB4-AC_APA_(11)-DA_1-2-4/8) mCD5-A(11)-DA_1 and cD2 = 0.14-20 optionsed someticing, CD3, CA-and have been contained as a contained as a business of the contained as a contained as a business of the contained as a b

Chemical or Trade Name Pyrene, 1,6-di-2-naphthalenyl- (CA INDEX NAME)



OS CITING REF COUNT: 13 THERE ARE 13 CAPAUS RECORDS THAT CITE THIS RECORD (48 CITINGS)

L5 ANSWER 52 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN

Accession Number 2004/37/438 CAPLUS <u>Pud-fext</u> Document Number 140/102/35

Organic electroluminescent devices and displays with pyrene-containing viryl polymor layers

Author Inventor

Ebisawa Akira, Shinkai Masahiro

Patent Assignee Corporate Source TDK Corporation, Japan

TDK Corporation, Japan
Source
Source
App. Kohal Tokkyo Koha, 36 pp. CODEN: JKXXAF
Document Type
Patient
Language
Japanese
Patient Information

PATENT NO	KIND	DATE	APPLICATION NO.	DATE
JP 2004014325	A	20040115	JP 2002-166962	20020607
JP 4068896	B2	20080326		

Addition
The devices compose argainst layers constituting publicatives of wind recomments (101-16 - Hz shift, shifter, shift, shifter, shift, shifter, shift, shifter, shift, shifter, shifter, shift, shifter, shifter, shifter, shifter, and shifter, and shifter shifter, shif

Chemical or Trade Name Benzenanine, 4-ethenyl-N.N-diphenyl-, polymer with I-[1,1'-biphenyl'-2-y-6-(4-ethenylphenyl)pyrene (9CI) (CA. INDEX NAME)

CN 1

CRDR 643753-68-8 CMP C36 824

CN 2

CEST 25069-74-3 CMF C20 H17 N

CAS Registry Number 643753-10-2 CAPLUS

Chemical or Trade Name Pyrene, 1-(4-ethenylphenyl)-6-phenyl-, homopolymer (9CI) (CA INDEX NAME)

CRS 643753-67-7 CMF C30 N20

CAS Registry Number 643753-71-3 CAPLUS

Chemical or Trade Name Fyrence, 1-(1,1'-bipheny1)-2-y1-6-(4-etheny1pheny1)-, homopolymex (9CI) (CA INDEX NAME)

CROX 643753-68-8 CMC C36 H24

CAS Registry Number 643753-67-7 CAPLOS

Chemical or Trade Name Pyrane, 1-(4-ethenylphenyl)-6-phenyl- (CA INDEX NAME)

CAS Registry Number 643753-68-8 CAPLOS

Chemical or Trade Name Pyrene, 1-(1,1"-biphenyl]-2-yl-6-(4-ethenylphenyl)- (CA INDEX NAME)

L5 ANSWER 53 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 2003 912665 CAPLUS Ful-terr

Document Number

139 401353 Trie

Electroluminescent devices Author/Inventor

Xie: Shuang
Patent Assignee Corporate Source
Can

Source U.S. Pat Appl Publ., 32 pp. CODEN USXXXCO

Language English

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20030215667	A1	20031120	US 2001-985204	20011102

Organic electroluminisacent devices are described which are provided with active layers comprising a host based on 21 anthracew derivative doped with 21 anthracene derivative and or coursann derivative and/or so electrol nijecting transporting layer comprising a diphenylanthracene derivative with benzacele derive attached to the Ph groups. Application to displays is indicated.

CAS Registry Number 626236-26-8 CAPLUS

Chemical or Trade Name
Pyrene, 1,3,6,8-tetrakis(9,9-diethy)-98-fluoren-2-yl)- (CA INDEX NAME)

OS CITING REF COUNT: 5 THERE ARE 5 CAPIUS RECORDS THAT CITE THIS RECORD (5 CITINGS)

L5 ANSWER 54 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN

Accession Number 2003/656268 CAPLUS Full built

Document Number 139.204830

Organic electroluminoscenti elements containing organic thin layer comprising 1,3,6,5-letisphenyloyene derivative and a carbasole derivative, and organic electroluminoscenti displays employing the elements Organic electrolaminescene earth-ins solitaria que de Author (Investe). Mesaru, Sotoyana, Wataru, Kodama, Jan, Okameto, Yasuo Patent Assigna Corporate Source Fujitsu Limited, Japan, Fuji Photo Filan, Ltd.

U.S. Pat Appl Publ., 19 pp CODEN USXXXCO

U.S. ren
Document Type
Patent
Language
English

PATENT NO	KIND	DATE	APPLICATION NO.	DATE
US 20030157365	A1	20030821	US 2002-278866	20021024
US 7060370	82	20060613		
JP 2003234190	λ	20030822	JP 2002-29335	20020204
JP 3841695	82	20061101		
TW 316954	в	20091111	TW 2002-124739	20021024
ER 918540	B1	20090921	XR 2002-66343	20021030

Again electrolumnescent elements and argains electrolumnescent displays employing the elements are discribed in which the electrolumnescent elements comprise an again; thin thin laye which contains a lighth entitle grow between a pass electrols and a may electrolic, where a layer in the argain, the lith layer compress a 1,26,2 betapting-layeren compound supressed by formula, it and a cartainside element in the contains a lighth entity. The major better of a former damped or a first and a faithful and a first and a fi Hil Structure

Chemical or Trade Name Pyreme, 1,3,6,8-tetraphenyl- (CA INDEX NAME)



OS.CITING REF COUNT: 4 THERE ARE 6 CAPADS RECORDS THAT CITE THIS RECORD [5 CITINGS]

LIS ANSWER 55 OF 58 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 2003 279802 CAPLUS EMERCA

Document Number 138 278143

Trie

Organio electroluminescent devices
Author/Inventor
Buzuis, Koichi
Patert Assigne Corporate Source
Canon Inc., Japan

Jpn. Kokai Tokkyo Koho, 26 pp. CODEN: JKXXAF sent Type Patent

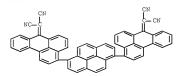
Language Japanese Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
JP 2003109763	A	20030411	JP 2001-300546	2001092#	

Abstract
The devices comprise a phosphor layer comprising R1-44r1, where R1-4 + R. selv.(Luboritused analy), (suboritused) why (suboritused) herecycle, (suboritused condensed polyuron ring, (suboritused polyuron ring, suboritused) analy, (suboritused polyuron ring, suboritused polyuron rin

CAS Registry Number 503472-80-8 CAPLUS

Chemical or Trade Name Propagation (78-benz[de]anthracen-3-yl-7-ylidene]bis (78-benz[de]anthracen-3-yl-7-ylidene]bis (921) (CA INDEX NAME)



OS CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

, L5 ANEWER 56 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN ACCOSTON Number 2007 857225 CAPLUS F16-2012 DOCUMENT Number 187-87245

Organic electroluminescent device containing aromatic condensed ring compound

Author/Inventor
Suzuki: Kolchi, Senoa, Akihiro, Tanabe, Hiroshi
Patera Assignee Corporate Source
Canon Inc., Japan

Source Jpn: Kokai Takkyo Kaho, 50 pp. CODEN: JKXXAF Document Type Patent

Language Japanese Patent Information

PATENT NO KIND DATE APPLICATION NO. DATE

JP 2002329580	A	20021115	JP 2002-36804	20020214
JP 3870102	B2	20070117		
US 20020177009	A1	20021128	US 2002-77800	20020220
US 6830829	B2	20041214		
US 20050048318	A1	20050303	US 2004-940734	20040915
US 6994922	82	20060207		
JP 2007013199	A	20070118	JP 2006-230669	20060828
JP 4566962	B2	20101020		

Absolute
The disclosionemental dense has at expert lyer continuing surrents condensed any compound a between substituted with 11-4 and An 1-2 (i), a between substituted with 18-2 and An 1-2 (ii), a between substituted with 18-2 and An 1-2 (iii),

CAS Registry Number 425460-99-2 carting

Chemical or Trade Name 1,1'-Sipyrene, 6,6'',6'''-(1,3,5-benzenetriyl)trie- (CA INDEX NAME)

08,CITING REF COUNT: 17 THERE ARE 17 CAPLUS RECORDS THAT CITE THIS RECORD (27 CITINGS)

L5 ANSWER 57 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 2002 13019 CAPLUS Fi6-5929
Document Number 186 207501

Organic electroluminescent device

Source

Jon Kokai Totkiyo Koho, 8 pp CODEN-JKXXAF

Document Type

Patent

Language

Language

Patent Information

PATENT NO	KIND	DATE	APPLICATION NO.	DATE	
JP 2002063988	λ	21929228	JP 2000-250684	20000822	

Abotate:
The invention vision is an oppic deterohammescent device, judied for use in making a flat panel display, an illumination device, etc., wherein the pyrese derivative with bully substitution groups for centraling cytalization and excess generation, is utilized as a bit-e-entiting organic prospitors for whatmong the turnisections efficiency and the color pusity.

CAS Registry Number 13638-82-9 CAPLUS

Chemical or Trade Name Pyrene, 1,3,6,8-tetraphenyl- (CA INDEX NAME)

$$\Pr_{Ph} \xrightarrow{Ph}$$

OS CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

, L5 ANSWER 56 OF 58 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 2001 299286 CAPLUS Fulf-2005

Document Number 134 302822

Trie Organic electroluminescence devices

Organic electroslutiane science un successiva Author/Invention Author/Invention Toyama, Wataru, Hayano, Tomosiki, Sato, Hiroyukki, Matsuuna, Alara Paterif, Assgare-Corporate Sciure, Flugtau Ltd., Japan, Flug Photo Pilm Co., Ltd.

Source

- Un Kokal Tokkyo Koho, 6 pp. CODEN JKOXAF

Document Type

Language

Japansee

Patient Information

- UN JATE APPL

PATENT NO	KIND	DATE	APPLICATION NO.	DATE
JP 2001118682	A	20010427	JP 1999-299876	19991021
JP 3905255	B2	20070418		

A blue-emitting device comprises a phosphor layer containing an alkyl derivative, a cyclosikyl derivative or an aryl derivative of 1,3,6,5-fetraphenylperene. Hit Structure

CAS Registry Number 13638-82-9 CAPLOS

Chemical or Trade Name Pyrene, 1,3,6,8-tetraphenyl- (CA INDEX NAME)

OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)

L5 ANSWER 59 OF 59 CAPLUS COPYRIGHT 2011 ACS on STN Accession Number 2000/894280 CAPLUS FLECTOR

nent Number 133,259476

Amino or styryl compound, organic thin film, and electroluminescent device

Amino or styr) demosuro, organic sur area, sur anno Amino or styr) demosuro, and historiane de Michael Research, Masakazu, Azuma, Hisahiro, Bioda, Shuji, Aria, Hiromasa Pateri Assignes Corporate Source (Semitsu Vicean Co., Ltd., Japan

Source Jpn. Kokai Tokkyo Koho, 30 pp. CODEN: JKXXAF

Document Type Patent

Language Japanese Patent Information

	PATENT NO	KIND	DATE	APPLICATION NO	DATE
İ	JP 2000273056	A	20001003	JP 1999-352216	19991210
ı	JP 4429438	B2	20100310		
ı	JP 2010006818	A	20100114	JP 2009-188488	20090817

The compound compress DI A+IX4(VZIn (f. Ant = C6-30 di- or treatent aromatic group, X1, X2 = stypt, stypt)aryl, daryldramo, darylammoay(n = 6, 1; if X1 or X2 = the stypt) group, then D1 = C16-40 aromatic group having 2-deutor intigs (if X1 and X2 = the atting group, then D1 = C20-40 aromatic group having 2-deutor intigs). I shares good heat is estation (if glass transition interestinate 30°) and larg luminescence Helme.

Hill Shutchine

Chemical or Trade Name Benzenamine, N.N-diphenyl-4-(6-phenyl-1-pyrenyl)- (CA INDEX NAME)

CAS Registry Number 294881-28-0 CAPLOS

Chemical or Trade Name Benzenanine, N-(4-methylphenyl)-N-phenyl-4-(6-phenyl-1-pyrenyl)- (CA INDEX NAME)

CAS Registry Number 294881-29-1 CAPLUS

Chemical or Trade Mare [1,17-Biphenyi]-6-yl-W-[4-(6-phenyi]-pycewi]bhenyi]-6-xine, N-[1,17-biphenyi]-6-yl-W-[4-(6-phenyi]-pycewi]bhenyi]- [6-XMSEX NAM8]

